

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBDMW-WTW-P23120203A-1

FCC ID: PQRFXA3020-US

Product: IEEE802.11n/a/b/g Wireless LAN Access Point

Brand: CONTEC

Model No.: FXA3020-US

Received Date: 2024/11/1

Test Date: 2024/11/27 ~ 2024/12/23

Issued Date: 2025/1/9

Applicant: CONTEC CO., LTD.

Address: 3-9-31, HIMESATO, NISHIYODOGAWA-KU, OSAKA 555-0025, JAPAN

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____, **Date:** 2025/1/9
May Chen / Manager

This test report consists of 125 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.



Prepared by : Phoenix Huang / Specialist

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	4
1 Certificate	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	8
3.3 Channel List	9
3.4 Test Mode Applicability and Tested Channel Detail	10
3.5 Duty Cycle of Test Signal	11
3.6 Test Program Used and Operation Descriptions	12
3.7 Connection Diagram of EUT and Peripheral Devices	12
3.8 Configuration of Peripheral Devices and Cable Connections	14
4 Test Instruments	15
4.1 26 dB Bandwidth	15
4.2 RF Output Power	15
4.3 Power Spectral Density	15
4.4 6 dB Bandwidth	15
4.5 Occupied Bandwidth	15
4.6 AC Power Conducted Emissions	16
4.7 Unwanted Emissions below 1 GHz	16
4.8 Unwanted Emissions above 1 GHz	17
5 Limits of Test Items	18
5.1 26 dB Bandwidth	18
5.2 RF Output Power	18
5.3 Power Spectral Density	18
5.4 6 dB Bandwidth	18
5.5 Occupied Bandwidth	18
5.6 AC Power Conducted Emissions	19
5.7 Unwanted Emissions below 1 GHz	19
5.8 Unwanted Emissions above 1 GHz	20
6 Test Arrangements	21
6.1 26 dB Bandwidth	21
6.1.1 Test Setup	21
6.1.2 Test Procedure	21
6.2 RF Output Power	21
6.2.1 Test Setup	21
6.2.2 Test Procedure	21
6.3 Power Spectral Density	22
6.3.1 Test Setup	22
6.3.2 Test Procedure	22
6.4 6 dB Bandwidth	22
6.4.1 Test Setup	22
6.4.2 Test Procedure	22
6.5 Occupied Bandwidth	23
6.5.1 Test Setup	23
6.5.2 Test Procedure	23
6.6 AC Power Conducted Emissions	23
6.6.1 Test Setup	23
6.6.2 Test Procedure	23
6.7 Unwanted Emissions below 1 GHz	24
6.7.1 Test Setup	24
6.7.2 Test Procedure	25

6.8	Unwanted Emissions above 1 GHz.....	26
6.8.1	Test Setup	26
6.8.2	Test Procedure	26
7	Test Results of Test Item	27
7.1	26 dB Bandwidth	27
7.2	RF Output Power.....	30
7.3	Power Spectral Density	32
7.4	6 dB Bandwidth	36
7.5	Occupied Bandwidth.....	38
7.6	AC Power Conducted Emissions	42
7.7	Unwanted Emissions below 1 GHz	44
7.8	Unwanted Emissions above 1 GHz.....	46
8	Pictures of Test Arrangements	124
9	Information of the Testing Laboratories	125

Release Control Record

Issue No.	Description	Date Issued
RFBDMW-WTW-P23120203A-1	Original release.	2025/1/9

1 Certificate

Product: IEEE802.11n/a/b/g Wireless LAN Access Point

Brand: CONTEC

Test Model: FXA3020-US

Sample Status: Engineering sample

Applicant: CONTEC CO., LTD.

Test Date: 2024/11/27 ~ 2024/12/23

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -5.86 dB at 0.54453 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.3 dB at 600.00 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5150.00, 5350.00, 5470.00 and 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is RP-SMA not a standard connector.

Notes:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	1050.00 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	IEEE802.11n/a/b/g Wireless LAN Access Point
Brand	CONTEC
Test Model	FXA3020-US
Status of EUT	Engineering sample
Power Supply Rating	5 ~ 30 Vdc from adapter or 36 ~ 57 Vdc from PoE
Modulation Type	64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.7 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20): 24 802.11n (HT40): 11
Output Power	5.18 GHz ~ 5.24 GHz: 407.923 mW (26.11 dBm) 5.26 GHz ~ 5.32 GHz: 239.369 mW (23.79 dBm) 5.5 GHz ~ 5.7 GHz: 193.153 mW (22.86 dBm) 5.745 GHz ~ 5.825 GHz: 353.615 mW (25.49 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT has below function as following table:

Function	Device Type	DFS Band Support (Yes / No)
Access Point/ Repeater	Master	No
Station	Client without radar	Yes

2. There are WLAN (2.4 GHz) and WLAN (5 GHz) technology used for the EUT.

3. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (2.4 GHz)	WLAN (5 GHz)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Set	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	Chain 0	Molex	2128600011	5.3	2.4 ~ 2.4835	Dipole	RP-SMA
				4.5	5.15 ~ 5.85		
	Chain 1			5.3	2.4 ~ 2.4835	Dipole	RP-SMA
				4.5	5.15 ~ 5.85		
2	Chain 0	TE	2108936-2	2.2	2.4 ~ 2.4835	Dipole	RP-SMA
				3.7	5.15 ~ 5.85		
	Chain 1			2.2	2.4 ~ 2.4835	Dipole	RP-SMA
				3.7	5.15 ~ 5.85		

Note: Above antennas, Antenna Set 1 was selected for the final test.

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX Fixed Chain 0	1RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX

3.3 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

FOR 5500 ~ 5700 MHz

11 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. For Unwanted Emission and AC Power Conducted Emissions items have multiple power sources: Power connector with Adapter 1(Model: 6A-151DA12A)/ DC In with Adapter 2(Model: ATS018T-A050)/ POE Adapter. Pre-scan these modes and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. EUT pre-scan X-axis/ Y-axis/ Z-axis worst condition: X-axis 2. For Unwanted Emission and AC Power Conducted Emissions items worst power sources condition: ➤ Unwanted Emission item worst: AC Adapter 1 ➤ AC Power Conducted Emissions item worst: AC Adapter 2

Following channel(s) was (were) selected for the final test as listed below:

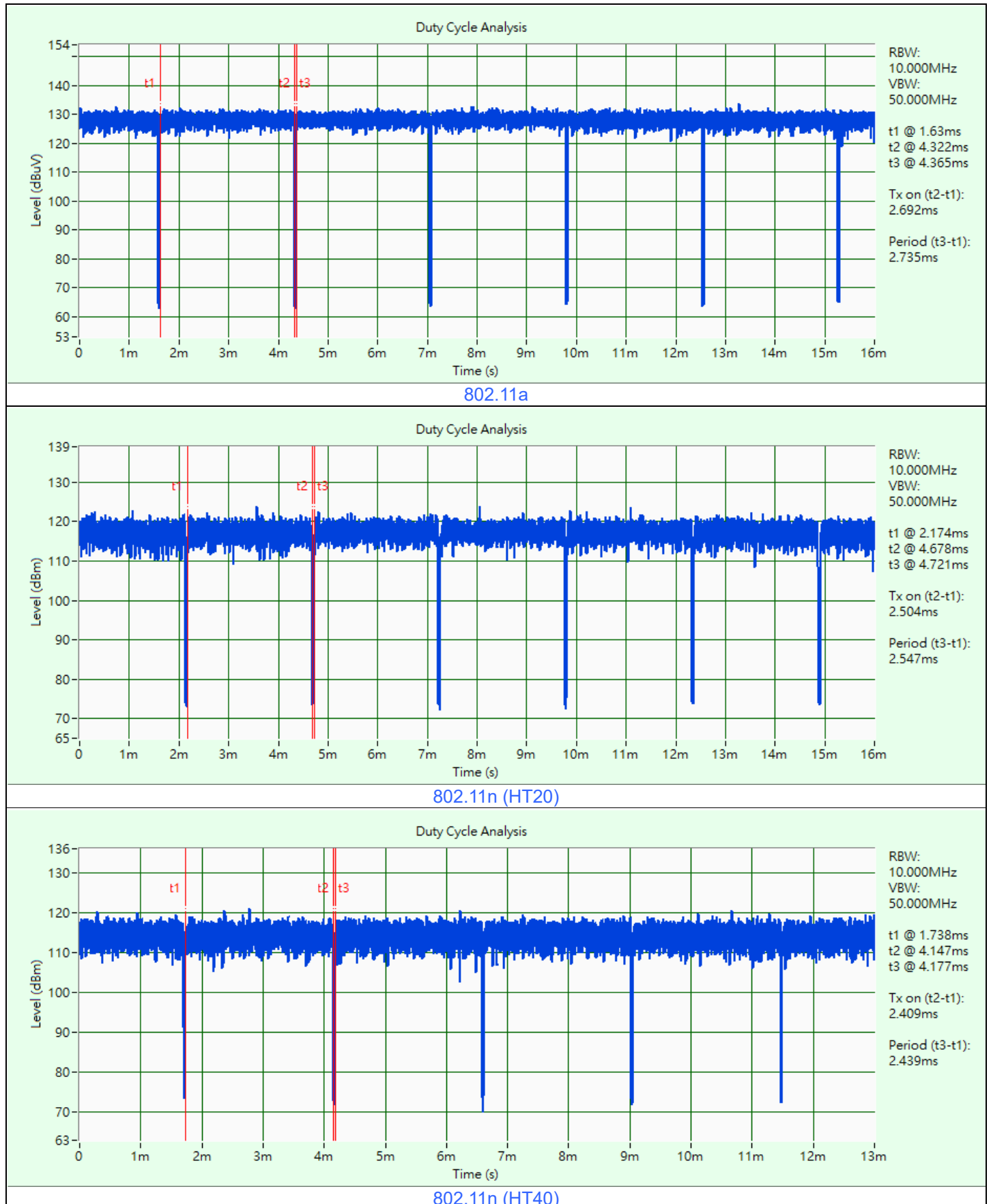
Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	SISO	52, 60, 64, 100, 116, 140	BPSK	6Mb/s
	802.11n (HT20)	CDD	52, 60, 64, 100, 116, 140	BPSK	MCS0
	802.11n (HT40)		54, 62, 102, 110, 134	BPSK	MCS0
RF Output Power	802.11a	SISO	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)		38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
Power Spectral Density	802.11a	SISO	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)		38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
6 dB Bandwidth	802.11a	SISO	149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	149, 157, 165	BPSK	MCS0
	802.11n (HT40)		151, 159	BPSK	MCS0
Occupied Bandwidth	802.11a	SISO	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)		38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0
AC Power Conducted Emissions	802.11n (HT20)	CDD	40	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11n (HT20)	CDD	40	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	SISO	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)		38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	MCS0

3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.692 ms / 2.735 ms x 100% = 98.4%

802.11n (HT20): Duty cycle = 2.504 ms / 2.547 ms x 100% = 98.3%

802.11n (HT40): Duty cycle = 2.409 ms / 2.439 ms x 100% = 98.8%

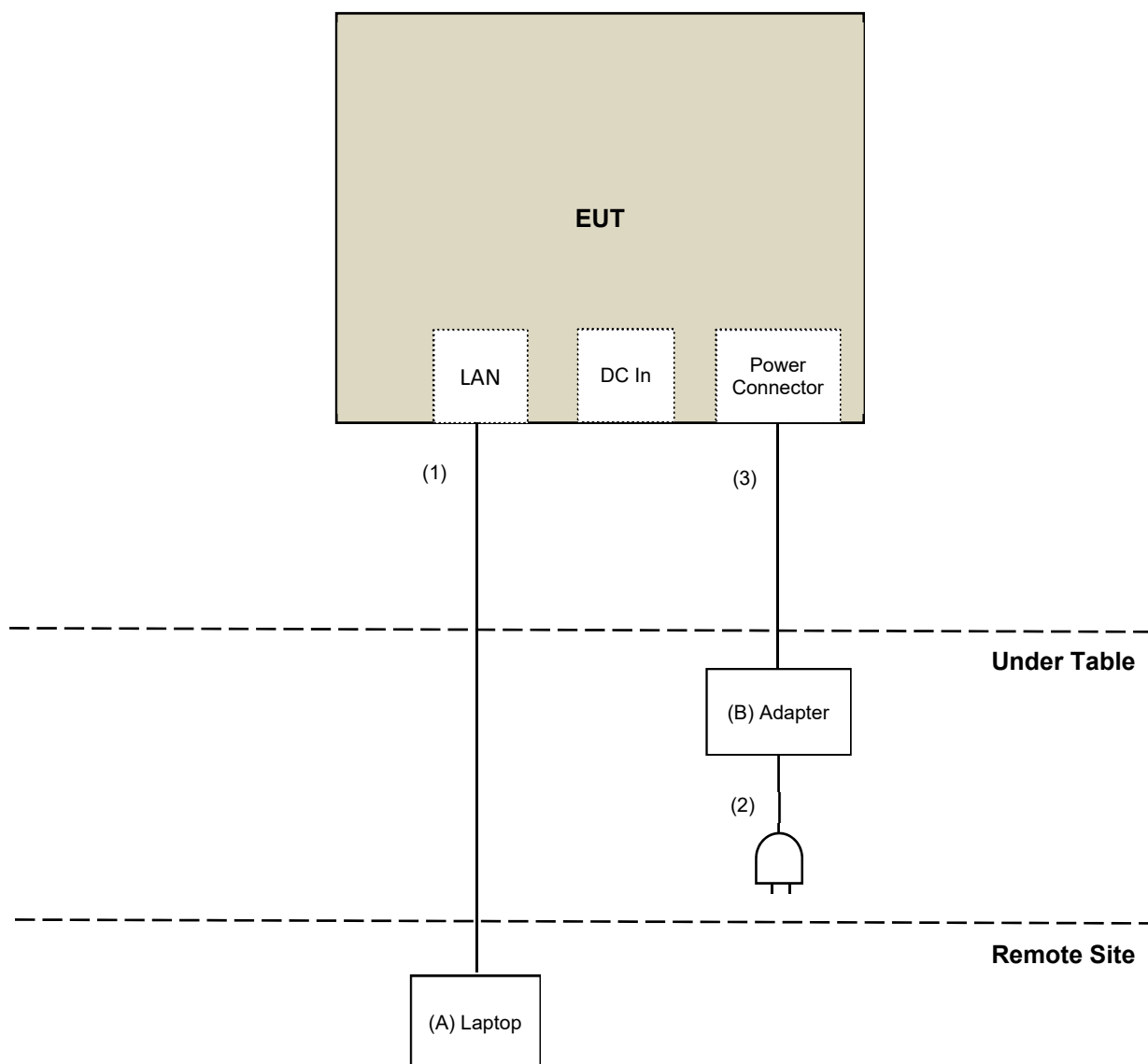


3.6 Test Program Used and Operation Descriptions

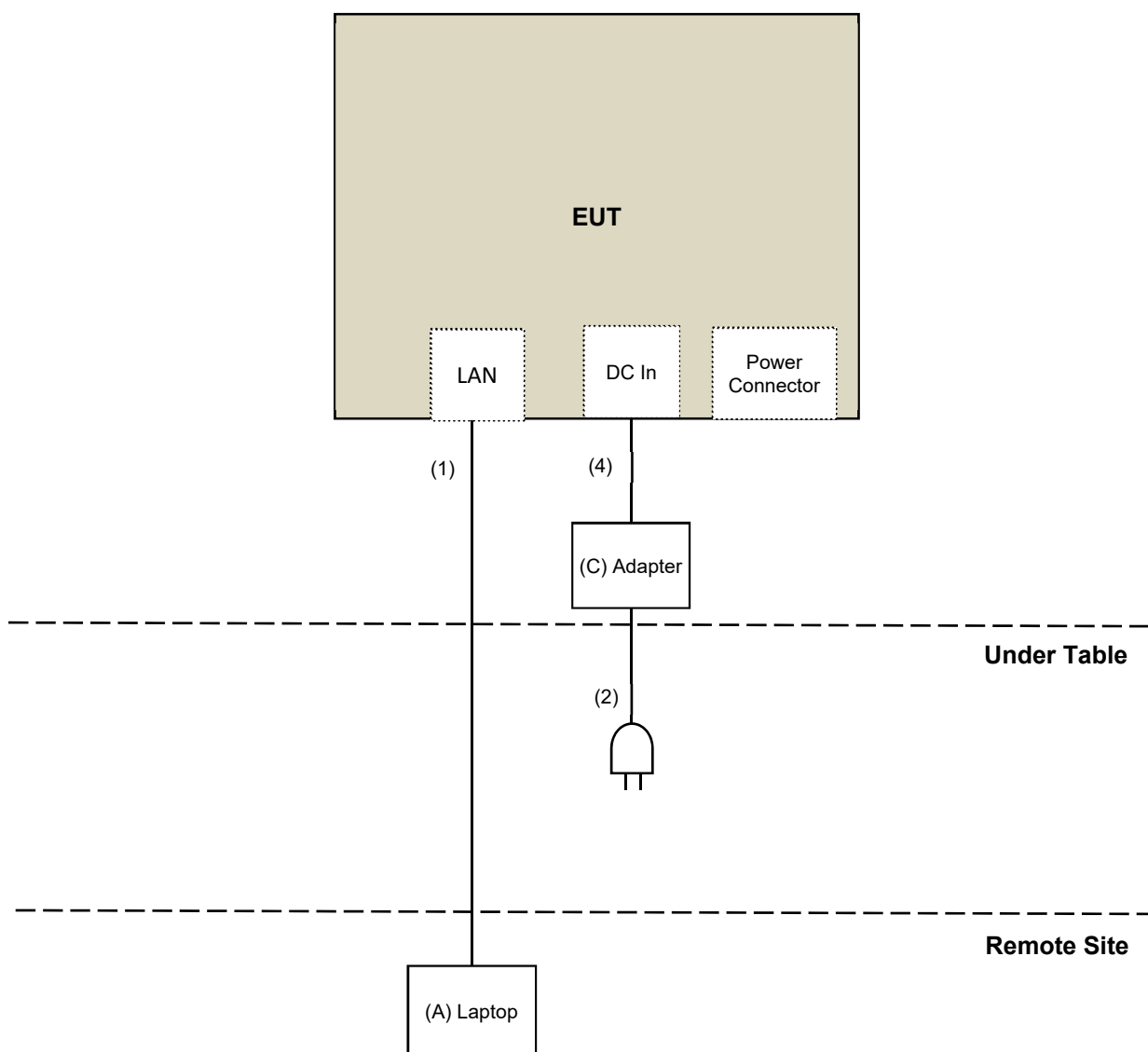
Controlling software (ART2-GUI V2.3.exe) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emissions test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E5430	7YV4VY1	DoC	Provided by Lab
B	Adapter	ENG ELECTRIC CO.,LTD.	6A-151DA12A	N/A	N/A	Supplied by applicant
C	Adapter	ADAPTER TECH.	ATS018T-A050	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ45 Cable	1	10	No	0	Provided by Lab
2	AC Cable	1	1.8	No	0	Supplied by applicant
3	DC Cable	1	1.55	No	0	Supplied by applicant
4	DC Cable	1	1.45	No	0	Supplied by applicant

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112408	2024/3/7	2025/3/6
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/12/9

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	1726434	2024/6/7	2025/6/6
RF Power Meter Anritsu	ML2495A	1529002	2024/6/7	2025/6/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/12/9

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2024/5/20	2025/5/19
Fixed Attenuator STI	STI02-2200-10	005	2024/2/19	2025/2/18
LISN R&S	ESH3-Z5	835239/001	2024/4/3	2025/4/2
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2024/2/19	2025/2/18
Software BVADT	BVADT_Conc_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/12/4

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0942	2024/10/14	2025/10/13
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-01	2024/5/16	2025/5/15
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXA Signal Analyzer Keysight	N9020B	MY60112410	2024/3/13	2025/3/12
MXE EMI Receiver Keysight	N9038A	MY59050100	2024/6/19	2025/6/18
Preamplifier EMCI	EMC330N	980852	2024/2/17	2025/2/16
	EMC001340	980142	2024/2/19	2025/2/18
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2024/2/19	2025/2/18
		LOOPCAB-002	2024/2/19	2025/2/18
RF Coaxial Cable PEWC	8D	966-6-1	2024/5/16	2025/5/15
		966-6-2	2024/5/16	2025/5/15
		966-6-3	2024/5/16	2025/5/15
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 6.
2. Tested Date: 2024/12/2

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-2035	2024/11/10	2025/11/9
	BBHA 9170	BBHA9170519	2024/11/10	2025/11/9
MXA Signal Analyzer Keysight	N9020B	MY60112410	2024/3/13	2025/3/12
MXE EMI Receiver Keysight	N9038A	MY59050100	2024/6/19	2025/6/18
Preamplifier EMCI	EMC12630SE	980385	2024/6/1	2025/5/31
	EMC184045SE	980387	2024/8/8	2025/8/7
RF Coaxial Cable EMCI	EMC104-SM-SM-1300	210205	2024/6/1	2025/5/31
	EMC104-SM-SM-2000	210203	2024/6/1	2025/5/31
	EMC104-SM-SM-8000	221015	2024/6/1	2025/5/31
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 6.
2. Tested Date: 2024/11/27 ~ 2024/12/23

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.7 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.8 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBμV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

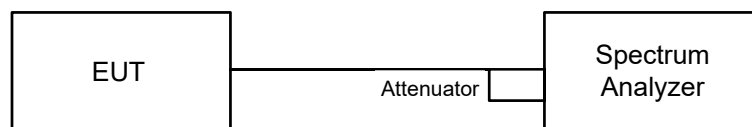
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

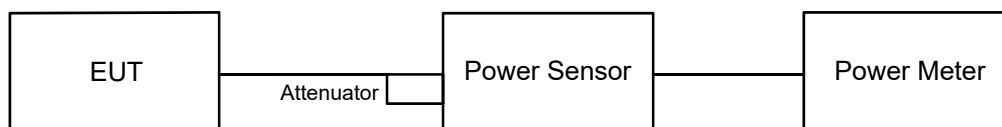


6.1.2 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.2 RF Output Power

6.2.1 Test Setup

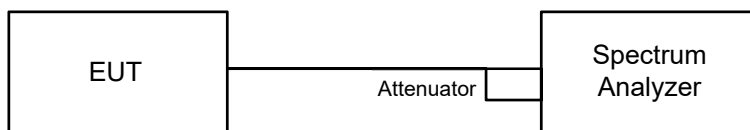


6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

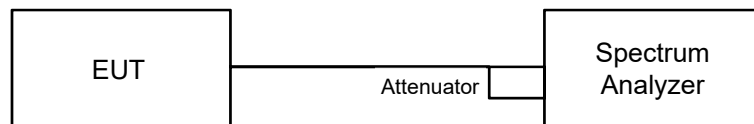
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

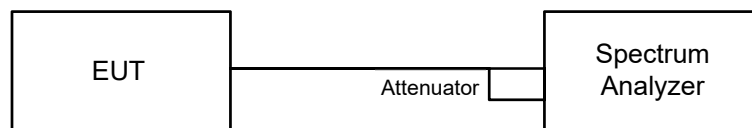


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup

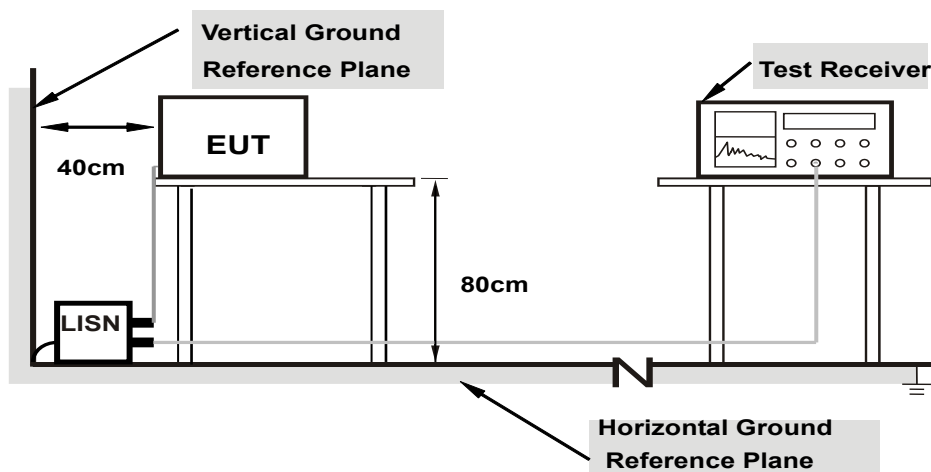


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 AC Power Conducted Emissions

6.6.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

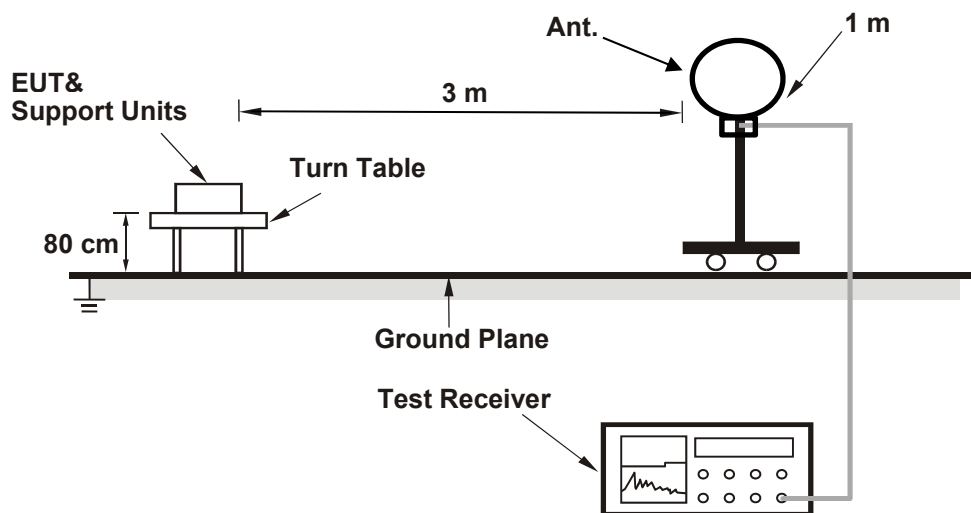
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

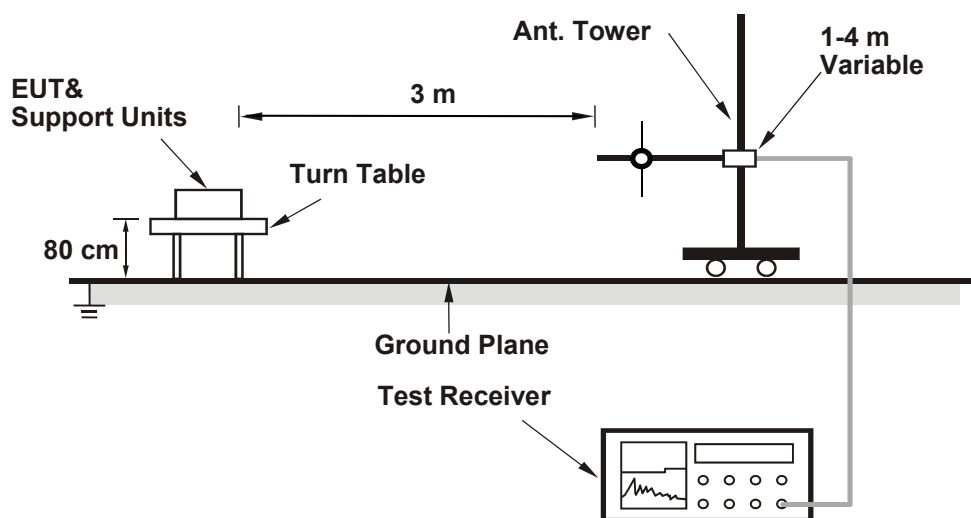
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

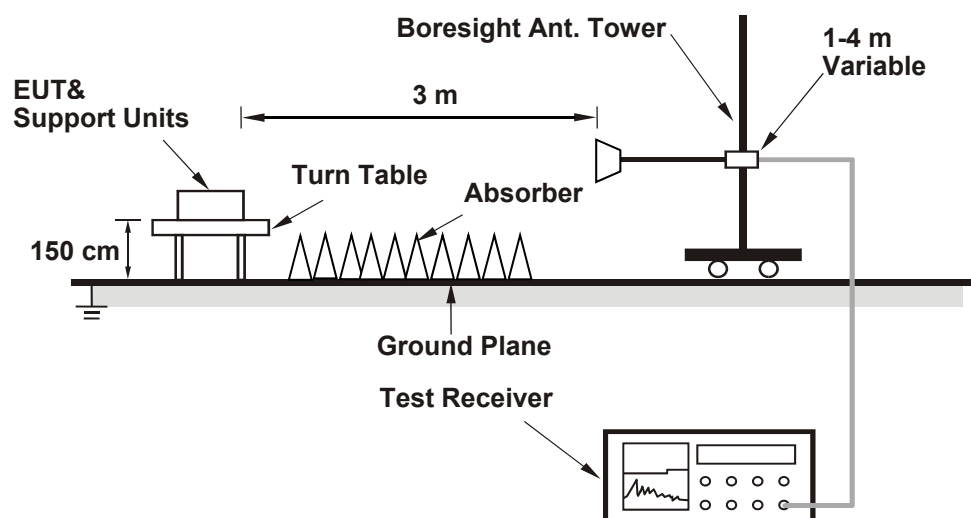
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	25°C, 60% RH	Tested By:	Henry
--------------	-------------------------	---------------------------	--------------	------------	-------

SISO

802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	52.15
60	5300	47.61
64	5320	37.45
100	5500	35.55
116	5580	51.1
140	5700	29.34

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	52.15	28.17	>	24
60	5300	47.61	27.77	>	24
64	5320	37.45	26.73	>	24
100	5500	35.55	26.5	>	24
116	5580	51.10	28.08	>	24
140	5700	29.34	25.67	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

CDD

802.11n (HT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	36.91	43.63
60	5300	36.63	44.22
64	5320	39.17	44.39
100	5500	30.80	36.09
116	5580	46.25	47.72
140	5700	27.38	32.65

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	36.91	26.67	>	24
60	5300	36.63	26.63	>	24
64	5320	39.17	26.92	>	24
100	5500	30.80	25.88	>	24
116	5580	46.25	27.65	>	24
140	5700	27.38	25.37	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

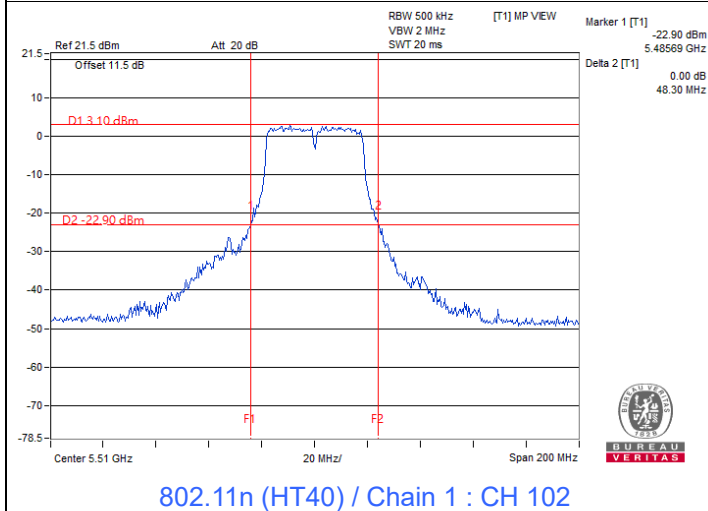
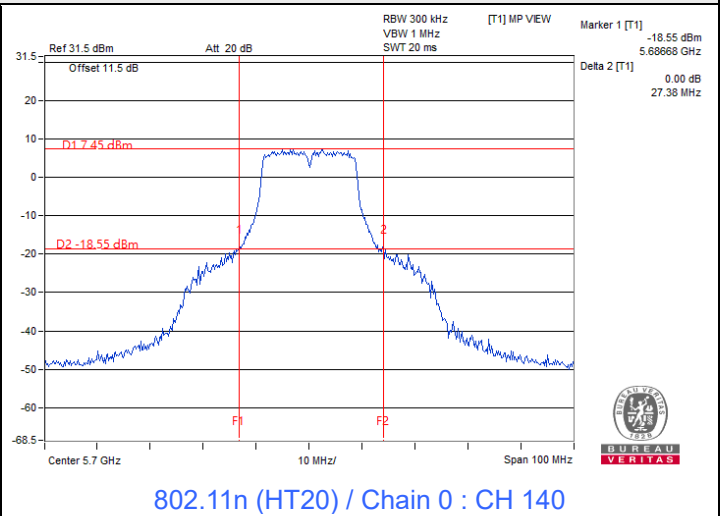
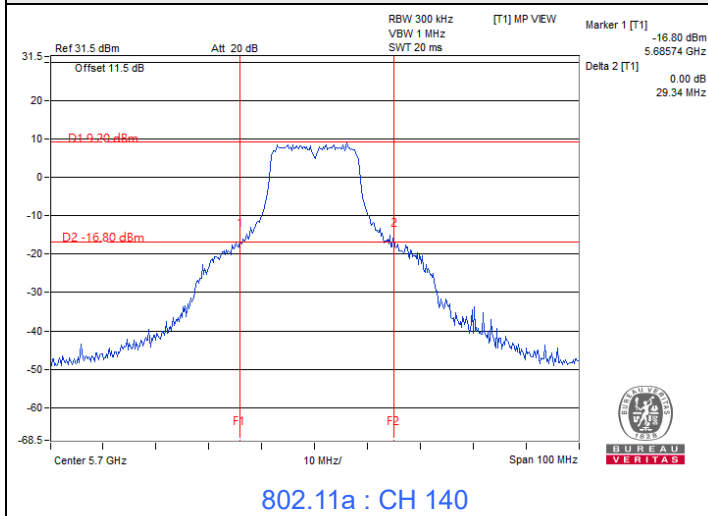
802.11n (HT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	95.43	101.51
62	5310	49.17	50.14
102	5510	50.05	48.30
110	5550	95.00	99.40
134	5670	83.46	87.33

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	95.43	30.79	>	24
62	5310	49.17	27.91	>	24
102	5510	48.30	27.83	>	24
110	5550	95.00	30.77	>	24
134	5670	83.46	30.21	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

Spectrum Plot of Minimum Value



7.2 RF Output Power

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	25°C, 60% RH	Tested By:	Henry
--------------	-------------------------	---------------------------	--------------	------------	-------

SISO

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	87.7	19.43	30	Pass
40	5200	219.786	23.42	30	Pass
48	5240	90.365	19.56	30	Pass
52	5260	214.783	23.32	24	Pass
60	5300	193.642	22.87	24	Pass
64	5320	99.083	19.96	24	Pass
100	5500	80.168	19.04	24	Pass
116	5580	180.302	22.56	24	Pass
140	5700	54.2	17.34	24	Pass
149	5745	183.231	22.63	30	Pass
157	5785	175.388	22.44	30	Pass
165	5825	168.267	22.26	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.

CDD
802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	19.48	19.03	168.699	22.27	30	Pass
40	5200	23.16	23.03	407.923	26.11	30	Pass
48	5240	20.57	18.97	192.911	22.85	30	Pass
52	5260	19.52	18.80	165.394	22.19	24	Pass
60	5300	19.77	18.07	158.963	22.01	24	Pass
64	5320	18.95	18.26	145.512	21.63	24	Pass
100	5500	17.72	16.59	104.76	20.20	24	Pass
116	5580	19.48	18.52	159.837	22.04	24	Pass
140	5700	16.64	15.29	79.938	19.03	24	Pass
149	5745	22.47	22.48	353.615	25.49	30	Pass
157	5785	22.30	22.36	342.011	25.34	30	Pass
165	5825	22.25	22.26	336.148	25.27	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	14.03	12.88	44.702	16.50	30	Pass
46	5230	21.15	19.56	220.682	23.44	30	Pass
54	5270	21.42	20.03	239.369	23.79	24	Pass
62	5310	14.72	13.59	52.504	17.20	24	Pass
102	5510	12.41	11.16	30.48	14.84	24	Pass
110	5550	20.32	19.32	193.153	22.86	24	Pass
134	5670	18.92	17.66	136.328	21.35	24	Pass
151	5755	21.39	21.23	270.46	24.32	30	Pass
159	5795	21.62	21.64	291.093	24.64	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 4.5 dBi < 6 dBi, so the output power limit shall not be reduced.

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	25°C, 60% RH	Tested By:	Henry
--------------	-------------------------	---------------------------	--------------	------------	-------

SISO

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	5.42	17	Pass
40	5200	9.31	17	Pass
48	5240	4.87	17	Pass
52	5260	8.46	11	Pass
60	5300	8.25	11	Pass
64	5320	5.56	11	Pass
100	5500	5.14	11	Pass
116	5580	8.74	11	Pass
140	5700	3.89	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4.5 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4.5 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4.5 dBi < 6 dBi, so the power density limit shall not be reduced.

CDD

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.48	5.41	8.46	15.49	Pass
40	5200	8.90	8.88	11.90	15.49	Pass
48	5240	5.59	6.24	8.94	15.49	Pass
52	5260	5.82	6.56	9.22	9.49	Pass
60	5300	5.53	6.60	9.11	9.49	Pass
64	5320	5.01	5.76	8.41	9.49	Pass
100	5500	3.79	4.38	7.11	9.49	Pass
116	5580	5.65	6.58	9.15	9.49	Pass
140	5700	2.68	3.59	6.17	9.49	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-1, the directional gain is 7.51 dBi > 6dBi, so the power density limit shall be reduced to 17-(7.51-6) = 15.49 dBm/MHz.
4. For U-NII-2A, the directional gain is 7.51 dBi > 6 dBi, so the power density limit shall be reduced to 11-(7.51-6) = 9.49 dBm/MHz.
5. For U-NII-2C, the directional gain is 7.51 dBi > 6 dBi, so the power density limit shall be reduced to 11-(7.51-6) = 9.49 dBm/MHz.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-2.83	-2.06	0.58	15.49	Pass
46	5230	3.02	3.60	6.33	15.49	Pass
54	5270	3.45	4.32	6.92	9.49	Pass
62	5310	-3.04	-2.02	0.51	9.49	Pass
102	5510	-4.93	-4.26	-1.57	9.49	Pass
110	5550	3.02	4.11	6.61	9.49	Pass
134	5670	1.15	2.24	4.74	9.49	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 7.51 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.51-6) = 15.49$ dBm/MHz.
- For U-NII-2A, the directional gain is 7.51 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.51-6) = 9.49$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.51 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.51-6) = 9.49$ dBm/MHz.

SISO

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	0.44	2.66	30	Pass
157	5785	0.37	2.59	30	Pass
165	5825	-0.05	2.17	30	Pass

Note: For U-NII-3, the antenna gain is 4.5 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
149	5745	0.42	0.74	3.59	5.81	28.49	Pass
157	5785	0.20	0.64	3.44	5.66	28.49	Pass
165	5825	0.02	0.46	3.26	5.48	28.49	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-3, the directional gain is 7.51 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.51-6) = 28.49$ dBm/500kHz.

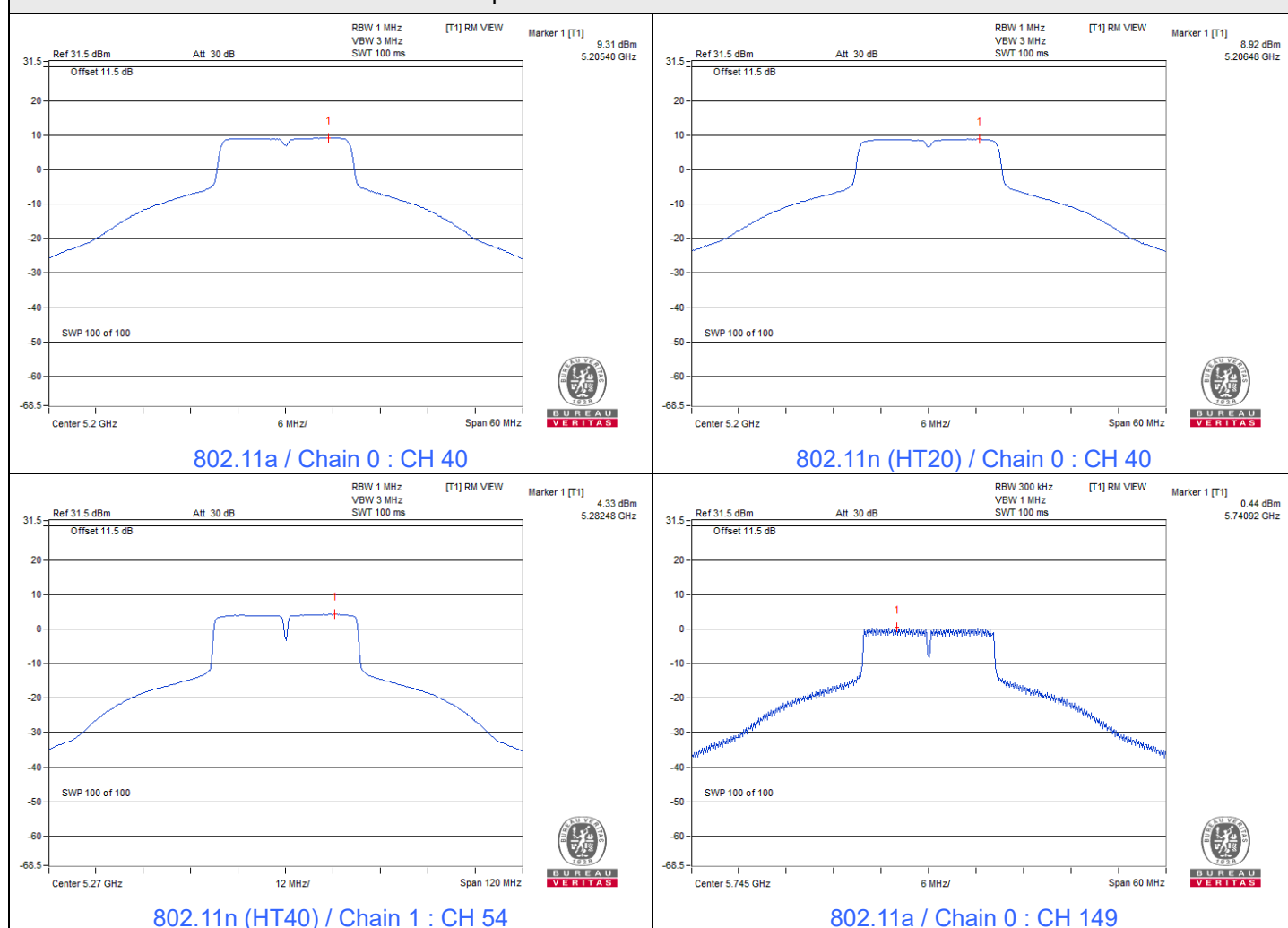
802.11n (HT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
151	5755	-4.24	-3.81	-1.01	1.21	28.49	Pass
159	5795	-3.73	-3.76	-0.73	1.49	28.49	Pass

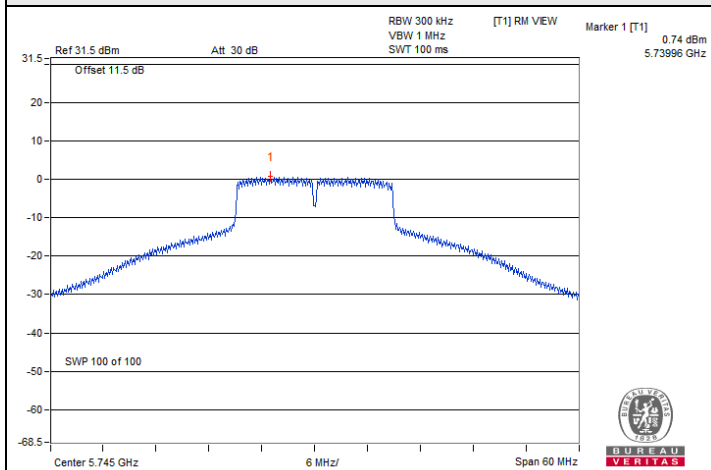
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 7.51 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.51 - 6) = 28.49$ dBm/500kHz.

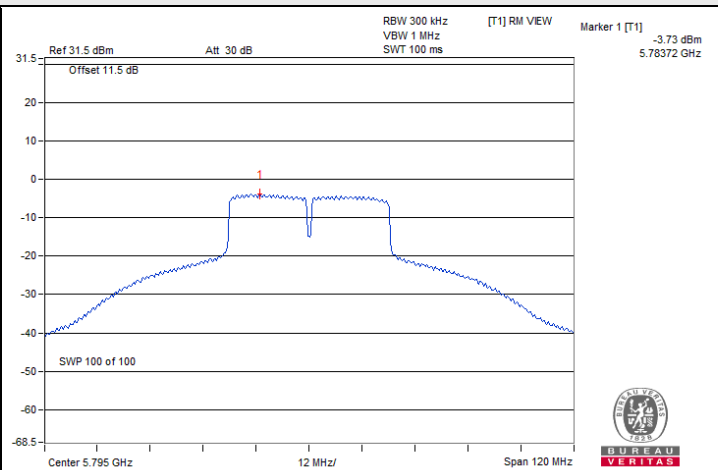
Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



802.11n (HT20) / Chain 1 : CH 149



802.11n (HT40) / Chain 0 : CH 159

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	25°C, 60% RH	Tested By:	Henry
--------------	-------------------------	---------------------------	--------------	------------	-------

SISO

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	16.41	0.5	Pass
157	5785	16.42	0.5	Pass
165	5825	16.41	0.5	Pass

CDD

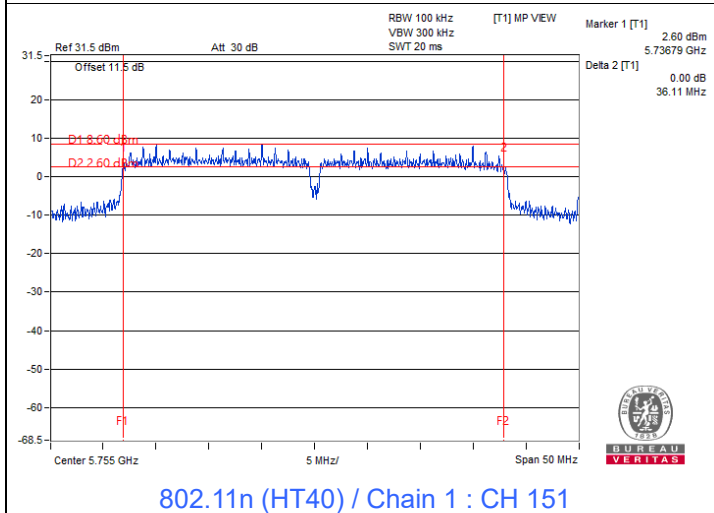
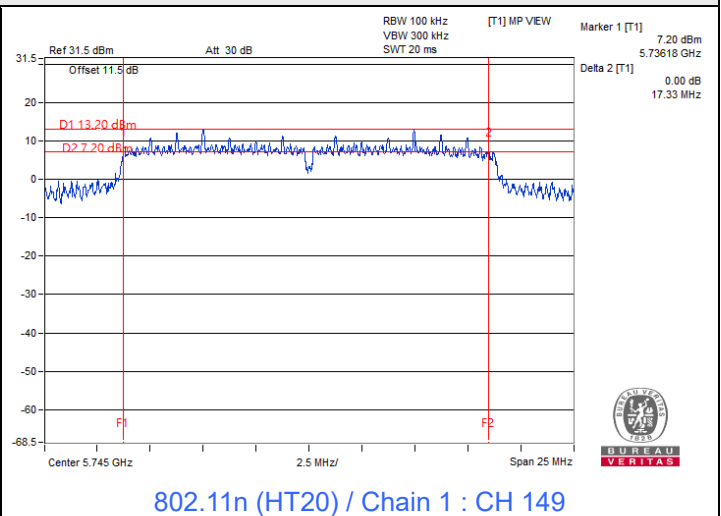
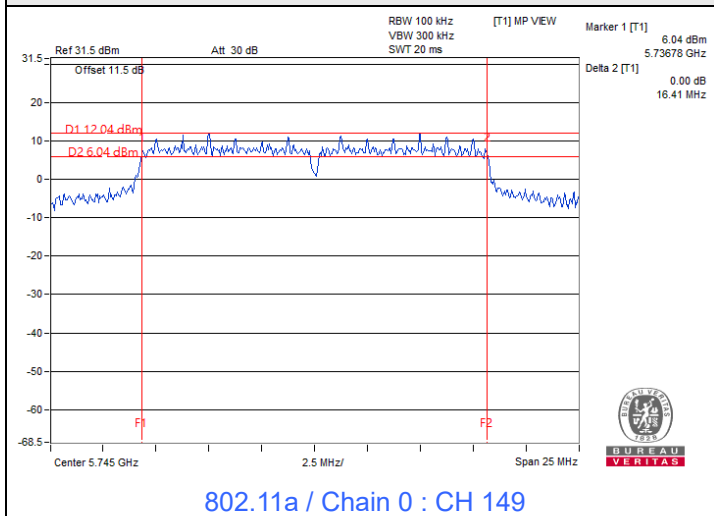
802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	17.58	17.33	0.5	Pass
157	5785	17.60	17.58	0.5	Pass
165	5825	17.57	17.34	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	36.40	36.11	0.5	Pass
159	5795	36.38	36.39	0.5	Pass

Spectrum Plot of Minimum Value



7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	25°C, 60% RH	Tested By:	Henry
--------------	-------------------------	---------------------------	--------------	------------	-------

SISO

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.24
40	5200	34.8
48	5240	17.76
52	5260	33.6
60	5300	29.52
64	5320	18.96
100	5500	18.72
116	5580	34.8
140	5700	17.52
149	5745	33.2
157	5785	32.4
165	5825	33.2

CDD

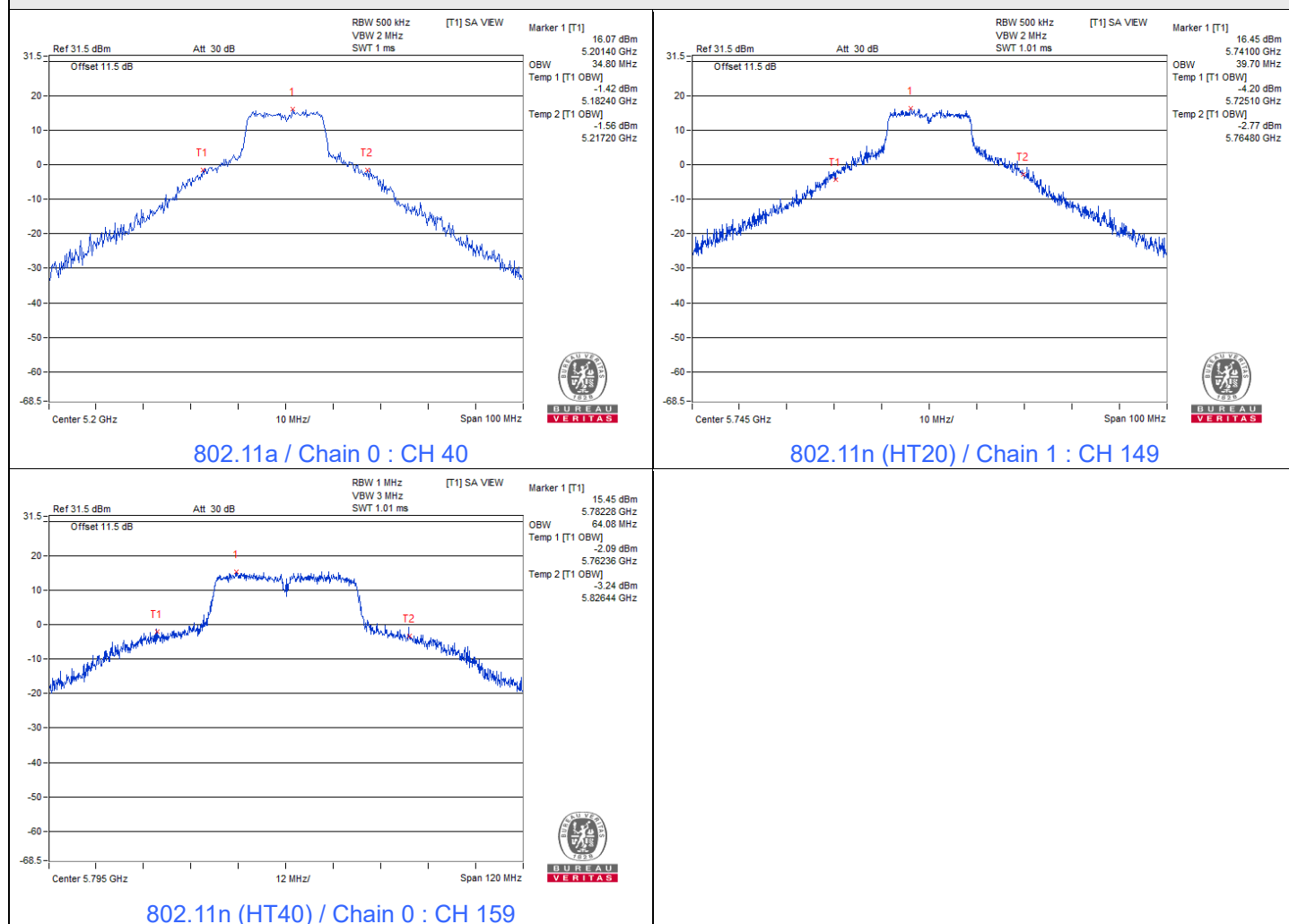
802.11n (HT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.56	19.68
40	5200	37.40	38.00
48	5240	19.20	19.92
52	5260	18.96	19.92
60	5300	18.96	20.40
64	5320	20.16	21.24
100	5500	18.60	18.72
116	5580	22.32	25.80
140	5700	18.36	18.36
149	5745	36.70	39.70
157	5785	36.20	39.60
165	5825	35.90	38.20

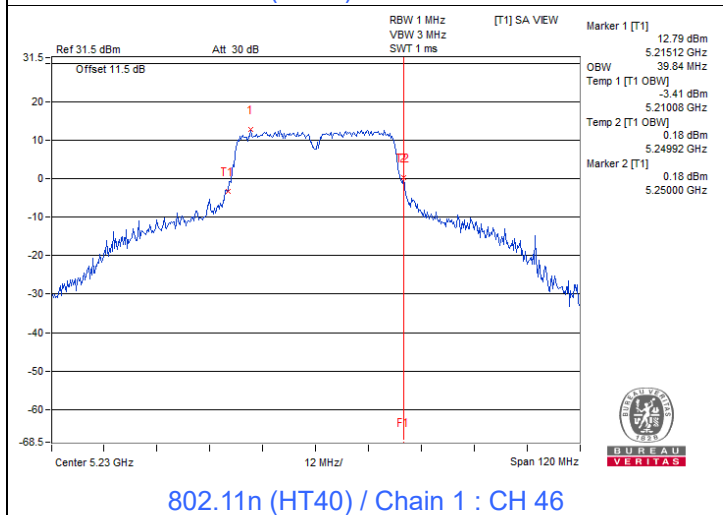
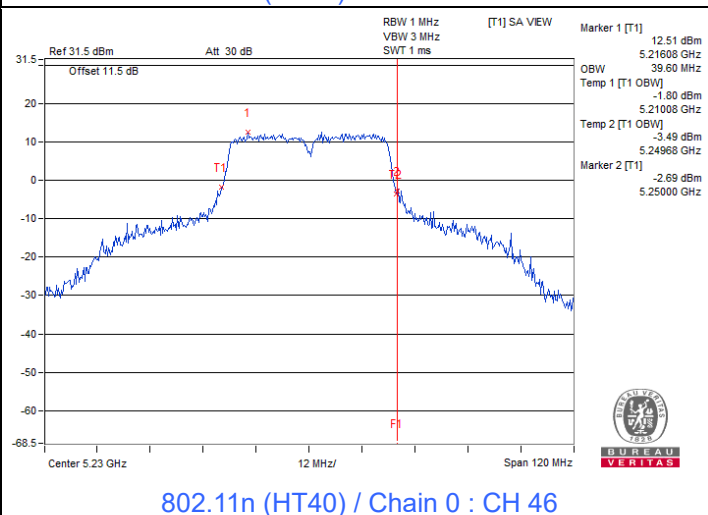
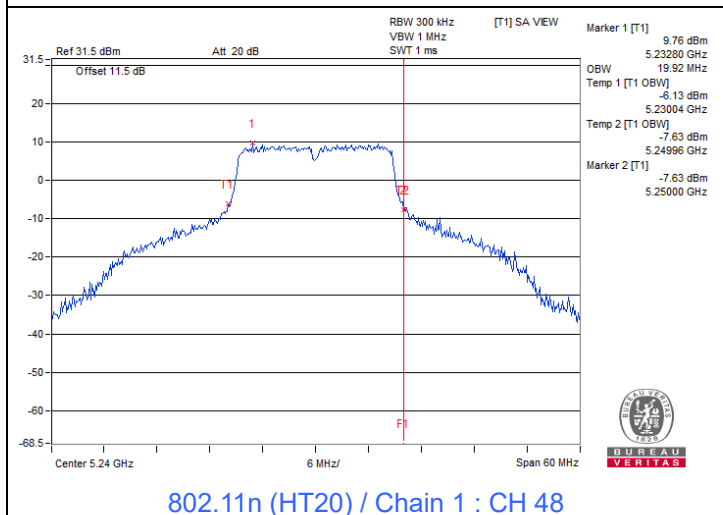
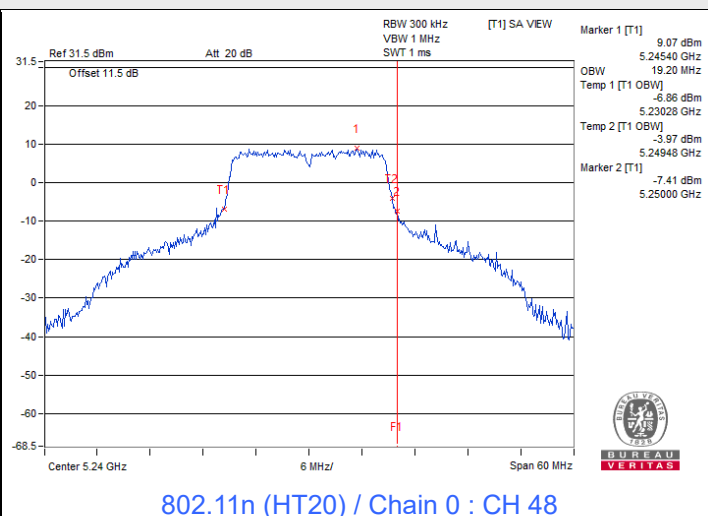
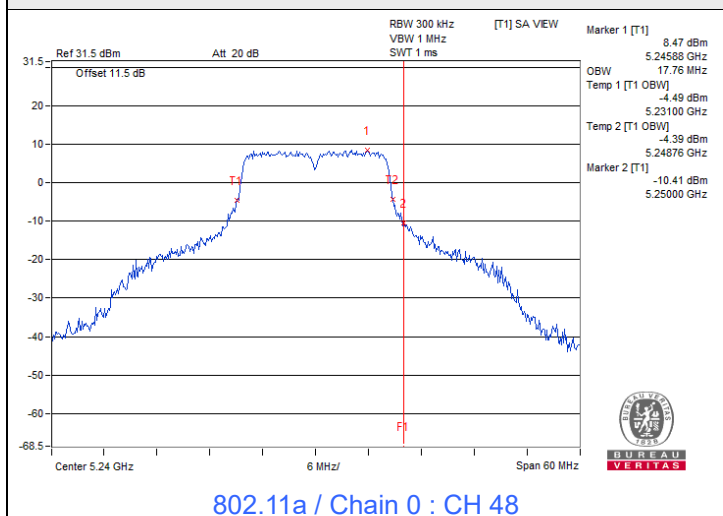
802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.68	37.44
46	5230	39.60	39.84
54	5270	48.48	56.16
62	5310	37.92	37.44
102	5510	37.68	37.44
110	5550	45.48	55.08
134	5670	38.64	39.12
151	5755	54.96	57.24
159	5795	64.08	63.24

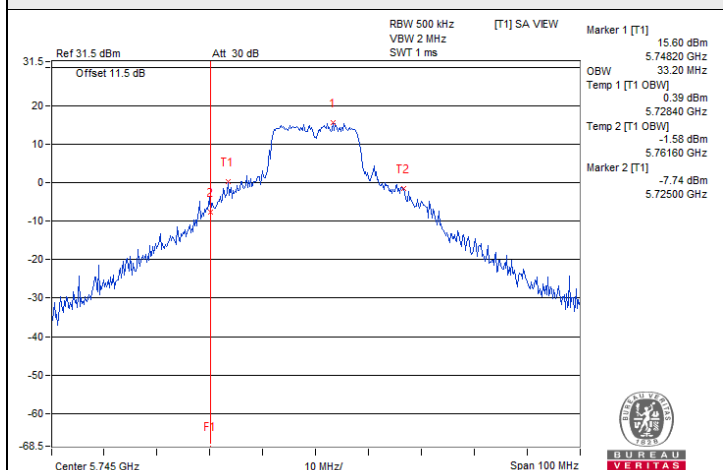
Spectrum Plot of Maximum Value



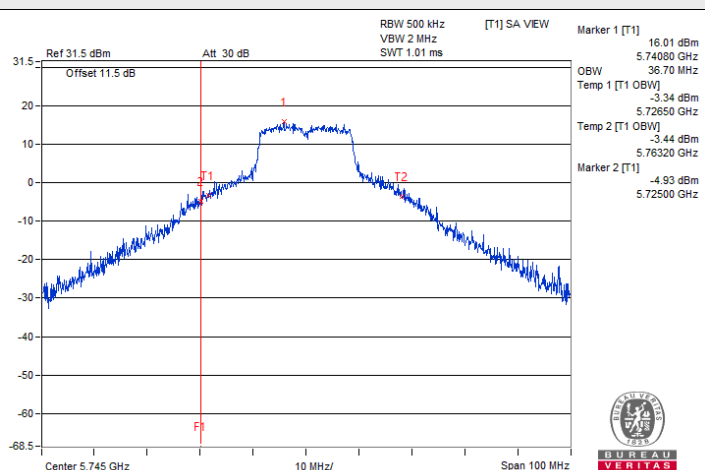
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



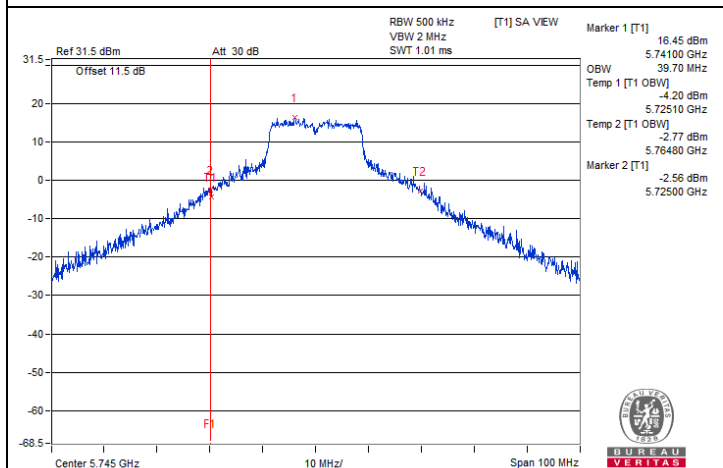
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



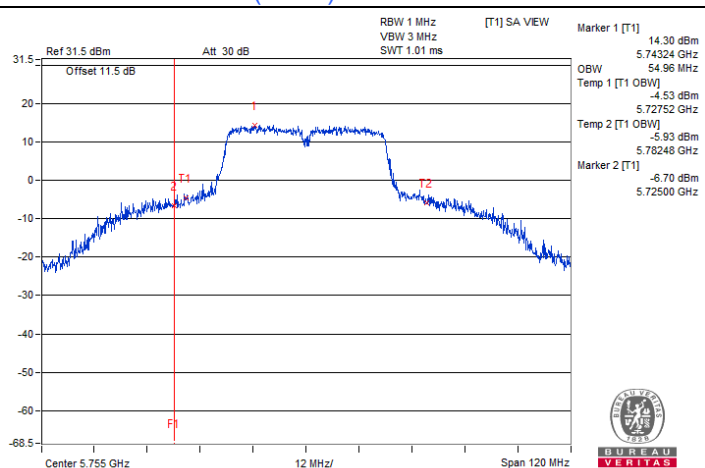
802.11a / Chain 0 : CH 149



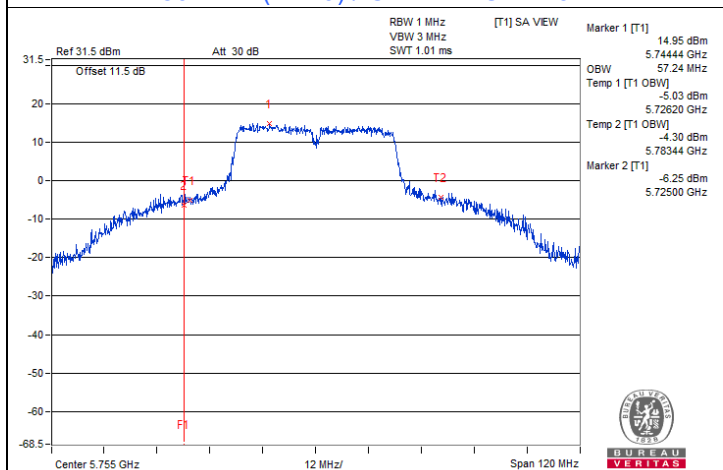
802.11n (HT20) / Chain 0 : CH 149



802.11n (HT20) / Chain 1 : CH 149



802.11n (HT40) / Chain 0 : CH 151



802.11n (HT40) / Chain 1 : CH 151

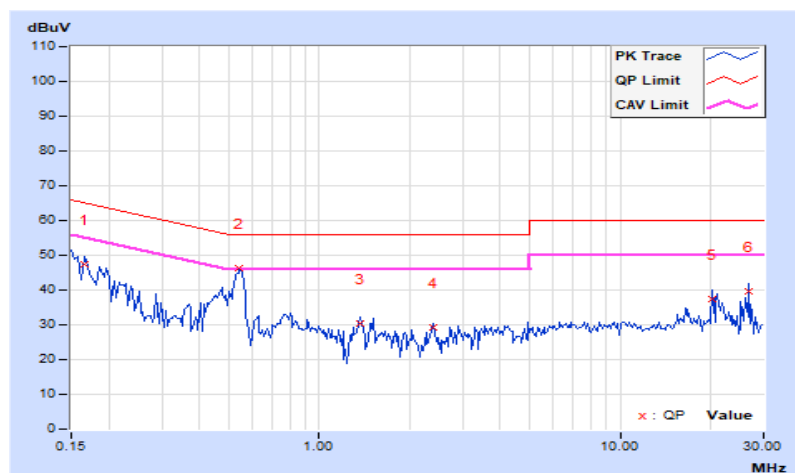
7.6 AC Power Conducted Emissions

RF Mode	802.11n (HT20)	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	26 °C, 68 % RH
Tested By	Louis Yang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	9.96	37.55	23.49	47.51	33.45	65.18	55.18	-17.67	-21.73
2	0.54453	9.99	36.36	30.15	46.35	40.14	56.00	46.00	-9.65	-5.86
3	1.36719	10.03	20.20	12.16	30.23	22.19	56.00	46.00	-25.77	-23.81
4	2.39844	10.08	19.02	8.76	29.10	18.84	56.00	46.00	-26.90	-27.16
5	20.25781	10.90	26.48	22.73	37.38	33.63	60.00	50.00	-22.62	-16.37
6	26.71484	11.04	28.70	18.96	39.74	30.00	60.00	50.00	-20.26	-20.00

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

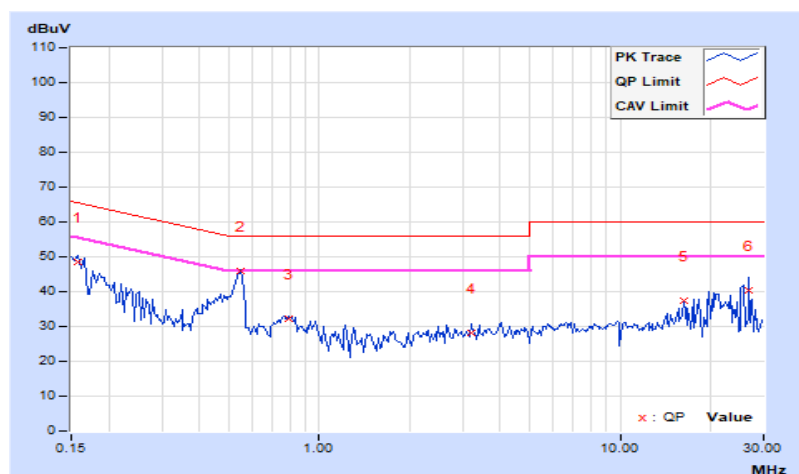


RF Mode	802.11n (HT20)	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	26 °C, 68 % RH
Tested By	Louis Yang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	10.00	38.50	24.61	48.50	34.61	65.58	55.58	-17.08	-20.97
2	0.54844	10.00	35.84	29.38	45.84	39.38	56.00	46.00	-10.16	-6.62
3	0.79453	10.02	22.14	13.47	32.16	23.49	56.00	46.00	-23.84	-22.51
4	3.22266	10.12	17.96	9.66	28.08	19.78	56.00	46.00	-27.92	-26.22
5	16.22656	10.64	26.76	22.78	37.40	33.42	60.00	50.00	-22.60	-16.58
6	26.71484	10.84	29.66	20.24	40.50	31.08	60.00	50.00	-19.50	-18.92

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



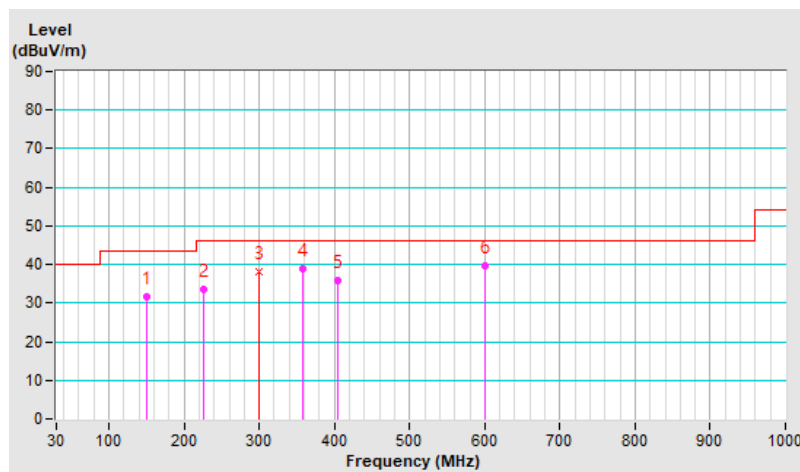
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11n (HT20)	Channel	CH 40 : 5200 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	149.94	31.8 QP	43.5	-11.7	1.50 H	146	44.8	-13.0
2	225.14	33.6 QP	46.0	-12.4	1.00 H	319	49.9	-16.3
3	299.96	38.0 QP	46.0	-8.0	1.50 H	360	50.7	-12.7
4	358.51	39.0 QP	46.0	-7.0	1.00 H	319	50.4	-11.4
5	405.15	35.9 QP	46.0	-10.1	2.50 H	62	46.2	-10.3
6	600.00	39.7 QP	46.0	-6.3	1.50 H	163	45.4	-5.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

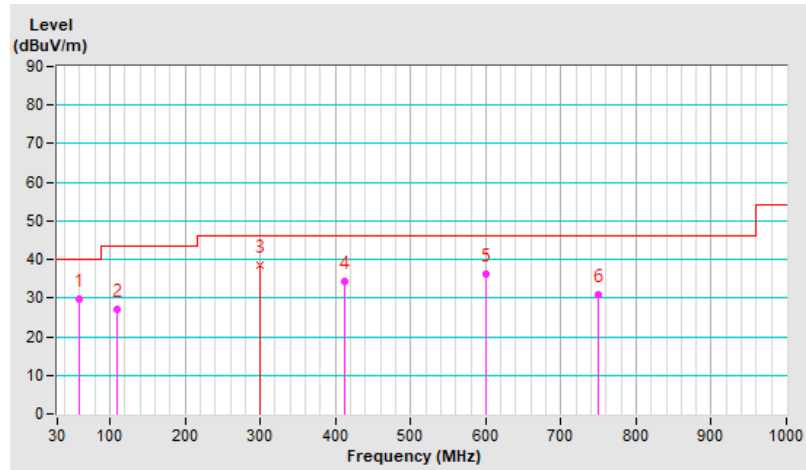


RF Mode	802.11n (HT20)	Channel	CH 40 : 5200 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	60.02	29.6 QP	40.0	-10.4	1.00 V	135	43.4	-13.8
2	109.69	26.9 QP	43.5	-16.6	3.00 V	242	43.2	-16.3
3	300.02	38.5 QP	46.0	-7.5	1.50 V	240	51.2	-12.7
4	411.89	34.4 QP	46.0	-11.6	3.00 V	166	44.6	-10.2
5	600.00	36.3 QP	46.0	-9.7	1.00 V	295	42.0	-5.7
6	750.01	30.8 QP	46.0	-15.2	2.50 V	294	34.1	-3.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.8 Unwanted Emissions above 1 GHz

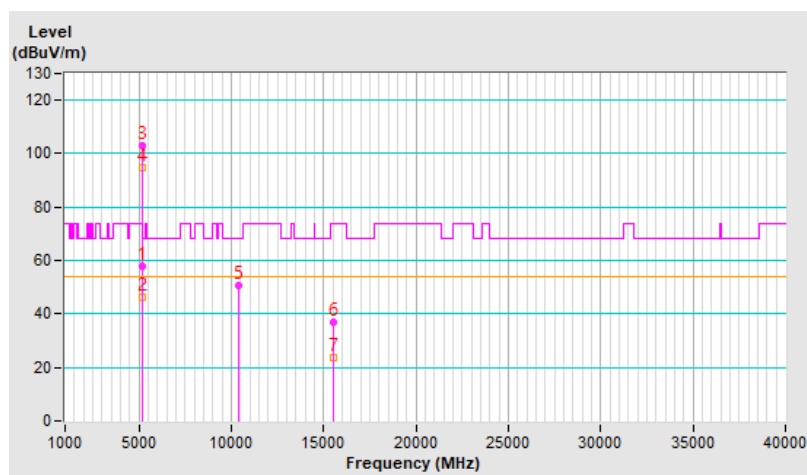
SISO

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	1.14 H	131	53.8	3.9
2	5150.00	46.4 AV	54.0	-7.6	1.14 H	131	42.5	3.9
3	*5180.00	103.2 PK			1.14 H	131	99.2	4.0
4	*5180.00	94.7 AV			1.14 H	131	90.7	4.0
5	#10360.00	50.7 PK	68.2	-17.5	2.57 H	171	36.7	14.0
6	15540.00	37.0 PK	74.0	-37.0	1.79 H	151	21.7	15.3
7	15540.00	23.6 AV	54.0	-30.4	1.79 H	151	8.3	15.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

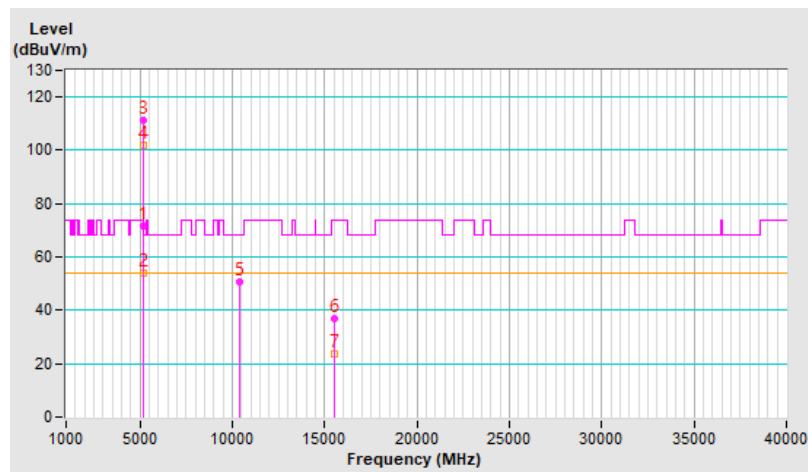


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	71.6 PK	74.0	-2.4	1.92 V	178	67.7	3.9
2	5150.00	53.8 AV	54.0	-0.2	1.92 V	178	49.9	3.9
3	*5180.00	111.4 PK			1.92 V	178	107.4	4.0
4	*5180.00	102.1 AV			1.92 V	178	98.1	4.0
5	#10360.00	50.7 PK	68.2	-17.5	2.53 V	176	36.7	14.0
6	15540.00	36.8 PK	74.0	-37.2	1.69 V	125	21.5	15.3
7	15540.00	23.9 AV	54.0	-30.1	1.69 V	125	8.6	15.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

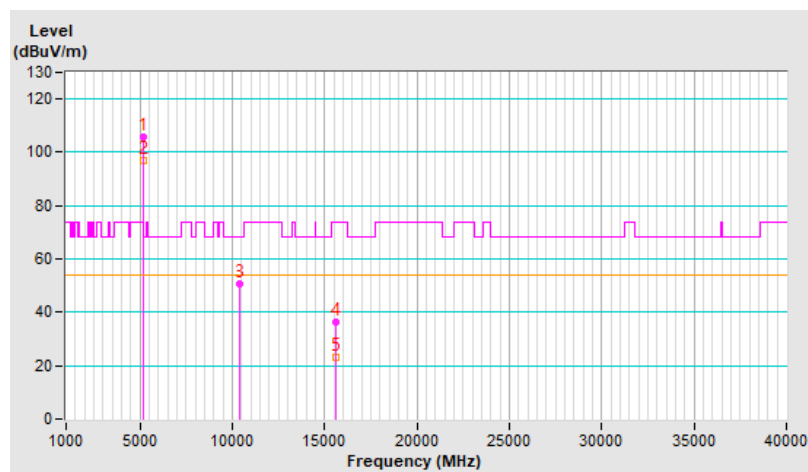


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	105.6 PK			1.05 H	101	101.7	3.9
2	*5200.00	96.9 AV			1.05 H	101	93.0	3.9
3	#10400.00	50.8 PK	68.2	-17.4	2.54 H	170	36.7	14.1
4	15600.00	36.2 PK	74.0	-37.8	1.68 H	136	21.6	14.6
5	15600.00	23.3 AV	54.0	-30.7	1.68 H	136	8.7	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

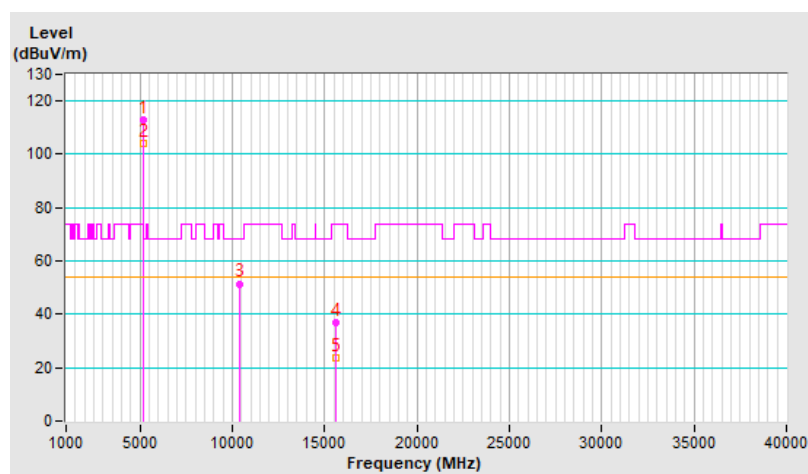


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	112.8 PK			2.27 V	5	108.9	3.9
2	*5200.00	104.3 AV			2.27 V	5	100.4	3.9
3	#10400.00	51.5 PK	68.2	-16.7	2.53 V	183	37.4	14.1
4	15600.00	36.7 PK	74.0	-37.3	1.66 V	137	22.1	14.6
5	15600.00	23.8 AV	54.0	-30.2	1.66 V	137	9.2	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

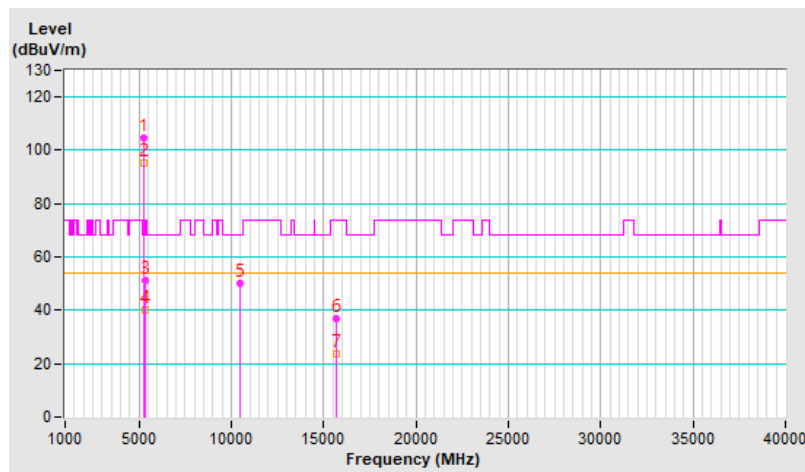


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	104.7 PK			1.10 H	98	101.1	3.6
2	*5240.00	95.5 AV			1.10 H	98	91.9	3.6
3	5350.00	51.0 PK	74.0	-23.0	1.10 H	98	47.4	3.6
4	5350.00	40.2 AV	54.0	-13.8	1.10 H	98	36.6	3.6
5	#10480.00	50.3 PK	68.2	-17.9	2.55 H	161	35.9	14.4
6	15720.00	36.8 PK	74.0	-37.2	1.76 H	121	22.1	14.7
7	15720.00	23.6 AV	54.0	-30.4	1.76 H	121	8.9	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

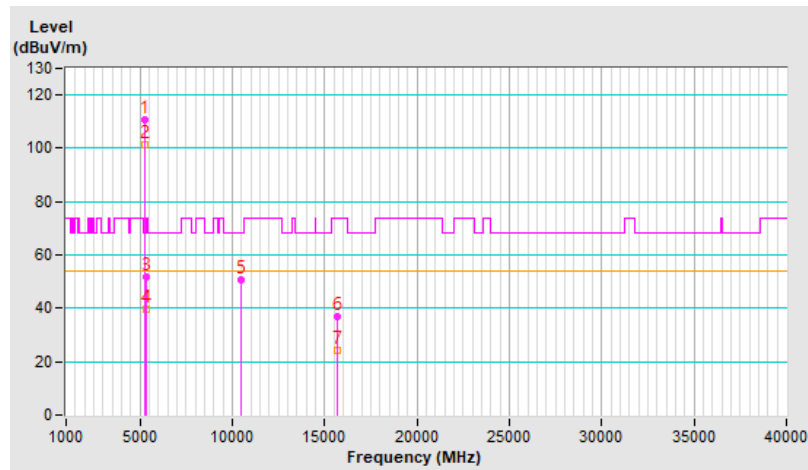


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	110.5 PK			1.49 V	1	106.9	3.6
2	*5240.00	101.1 AV			1.49 V	1	97.5	3.6
3	5350.00	51.6 PK	74.0	-22.4	1.49 V	1	48.0	3.6
4	5350.00	39.7 AV	54.0	-14.3	1.49 V	1	36.1	3.6
5	#10480.00	50.8 PK	68.2	-17.4	2.54 V	170	36.4	14.4
6	15720.00	37.1 PK	74.0	-36.9	1.68 V	122	22.4	14.7
7	15720.00	24.3 AV	54.0	-29.7	1.68 V	122	9.6	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

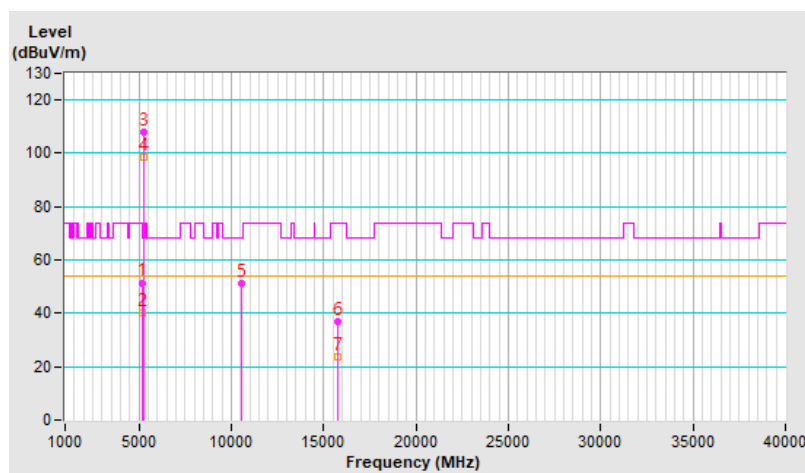


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.5 PK	74.0	-22.5	1.21 H	99	47.6	3.9
2	5150.00	40.2 AV	54.0	-13.8	1.21 H	99	36.3	3.9
3	*5260.00	107.8 PK			1.21 H	99	104.3	3.5
4	*5260.00	98.4 AV			1.21 H	99	94.9	3.5
5	#10520.00	51.3 PK	68.2	-16.9	2.56 H	172	36.9	14.4
6	15780.00	36.7 PK	74.0	-37.3	1.73 H	151	22.1	14.6
7	15780.00	23.7 AV	54.0	-30.3	1.73 H	151	9.1	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

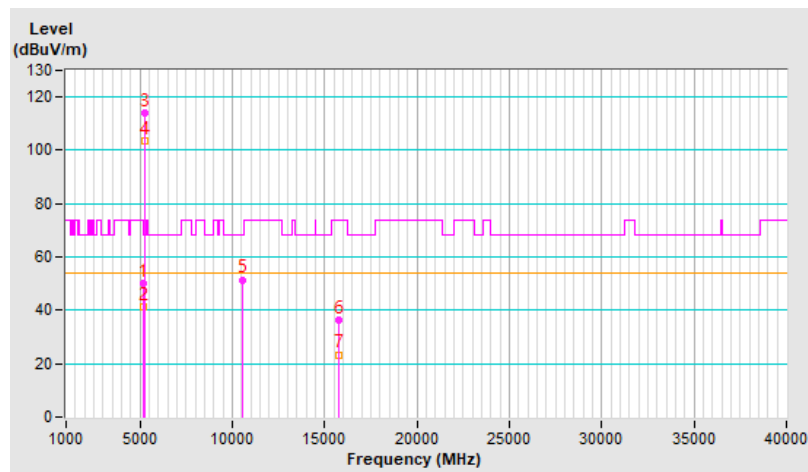


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.2 PK	74.0	-23.8	1.52 V	182	46.3	3.9
2	5150.00	41.1 AV	54.0	-12.9	1.52 V	182	37.2	3.9
3	*5260.00	113.8 PK			1.52 V	182	110.3	3.5
4	*5260.00	103.4 AV			1.52 V	182	99.9	3.5
5	#10520.00	51.5 PK	68.2	-16.7	2.45 V	180	37.1	14.4
6	15780.00	36.2 PK	74.0	-37.8	1.71 V	113	21.6	14.6
7	15780.00	23.4 AV	54.0	-30.6	1.71 V	113	8.8	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

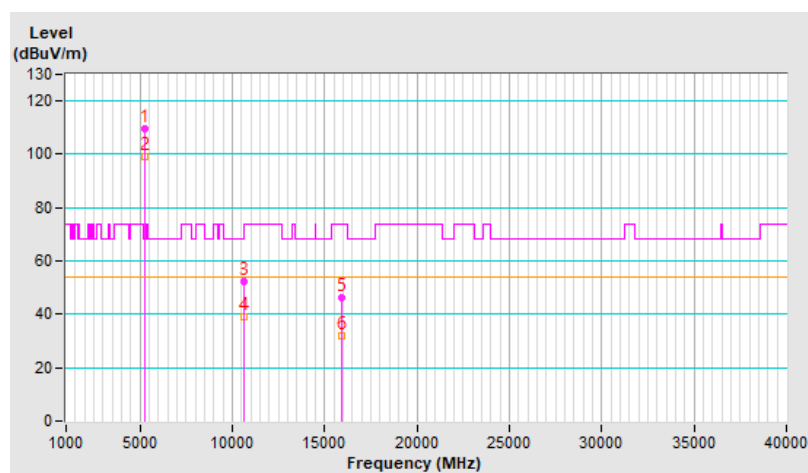


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	109.8 PK			1.00 H	100	106.3	3.5
2	*5300.00	99.0 AV			1.00 H	100	95.5	3.5
3	10600.00	52.2 PK	74.0	-21.8	3.80 H	273	37.6	14.6
4	10600.00	39.0 AV	54.0	-15.0	3.80 H	273	24.4	14.6
5	15900.00	46.0 PK	74.0	-28.0	1.74 H	258	31.3	14.7
6	15900.00	32.0 AV	54.0	-22.0	1.74 H	258	17.3	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

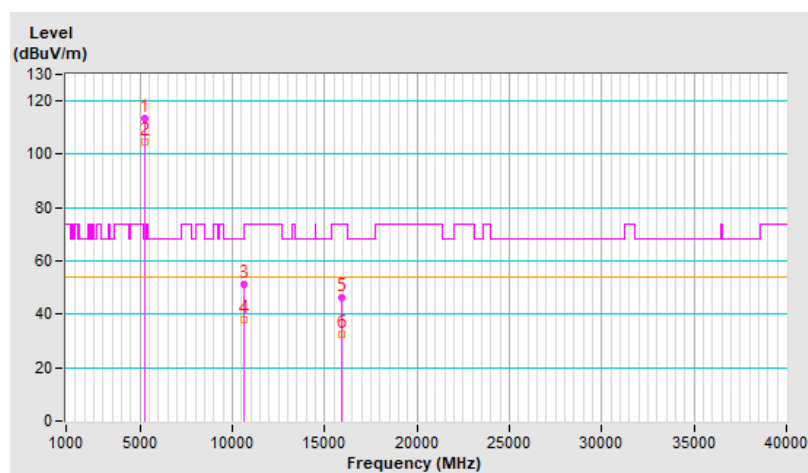


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.5 PK			2.08 V	22	110.0	3.5
2	*5300.00	104.6 AV			2.08 V	22	101.1	3.5
3	10600.00	51.4 PK	74.0	-22.6	3.77 V	283	36.8	14.6
4	10600.00	38.0 AV	54.0	-16.0	3.77 V	283	23.4	14.6
5	15900.00	46.3 PK	74.0	-27.7	1.77 V	254	31.6	14.7
6	15900.00	32.3 AV	54.0	-21.7	1.77 V	254	17.6	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

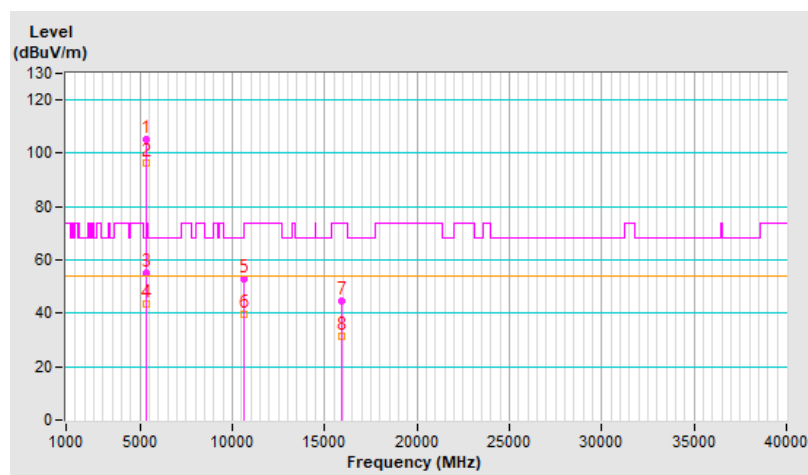


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.4 PK			1.21 H	101	101.9	3.5
2	*5320.00	96.4 AV			1.21 H	101	92.9	3.5
3	5350.00	55.0 PK	74.0	-19.0	1.21 H	101	51.4	3.6
4	5350.00	43.4 AV	54.0	-10.6	1.21 H	101	39.8	3.6
5	10640.00	52.7 PK	74.0	-21.3	3.81 H	288	38.1	14.6
6	10640.00	39.4 AV	54.0	-14.6	3.81 H	288	24.8	14.6
7	15960.00	44.8 PK	74.0	-29.2	1.75 H	240	29.8	15.0
8	15960.00	31.4 AV	54.0	-22.6	1.75 H	240	16.4	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

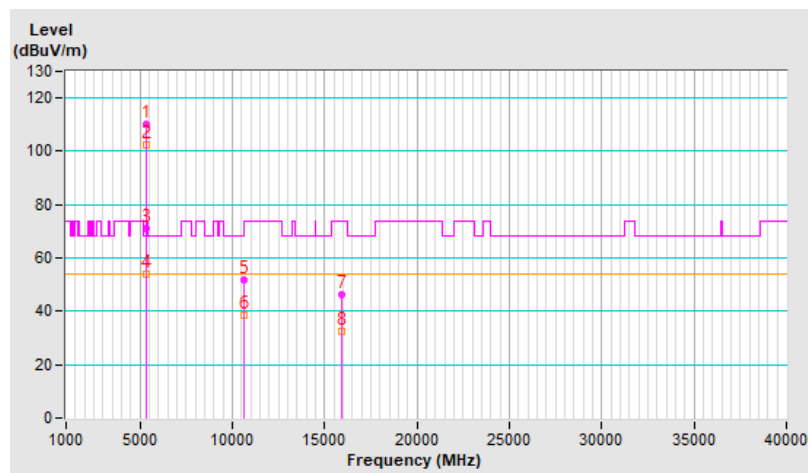


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.4 PK			2.25 V	26	106.9	3.5
2	*5320.00	102.6 AV			2.25 V	26	99.1	3.5
3	5350.00	71.2 PK	74.0	-2.8	2.25 V	26	67.6	3.6
4	5350.00	53.9 AV	54.0	-0.1	2.25 V	26	50.3	3.6
5	10640.00	51.7 PK	74.0	-22.3	3.76 V	280	37.1	14.6
6	10640.00	38.3 AV	54.0	-15.7	3.76 V	280	23.7	14.6
7	15960.00	46.1 PK	74.0	-27.9	1.78 V	266	31.1	15.0
8	15960.00	32.4 AV	54.0	-21.6	1.78 V	266	17.4	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

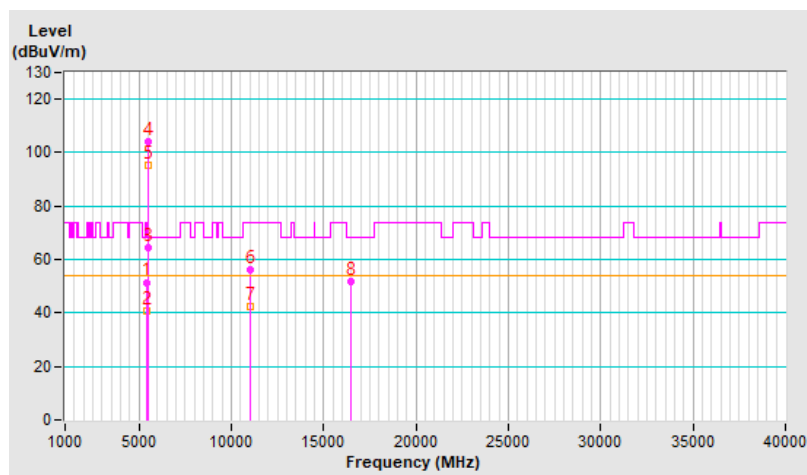


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.5 PK	74.0	-22.5	2.26 H	104	47.5	4.0
2	5460.00	40.5 AV	54.0	-13.5	2.26 H	104	36.5	4.0
3	#5470.00	64.3 PK	68.2	-3.9	2.26 H	104	60.3	4.0
4	*5500.00	104.3 PK			2.26 H	104	100.2	4.1
5	*5500.00	95.2 AV			2.26 H	104	91.1	4.1
6	11000.00	56.4 PK	74.0	-17.6	3.97 H	263	41.0	15.4
7	11000.00	42.6 AV	54.0	-11.4	3.97 H	263	27.2	15.4
8	#16500.00	51.6 PK	68.2	-16.6	3.04 H	360	34.5	17.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

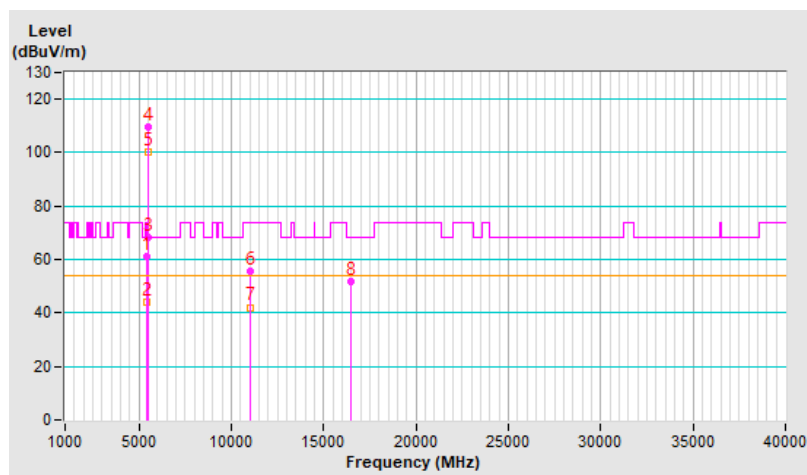


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	2.06 V	66	57.2	4.0
2	5460.00	43.8 AV	54.0	-10.2	2.06 V	66	39.8	4.0
3	#5470.00	68.1 PK	68.2	-0.1	2.06 V	66	64.1	4.0
4	*5500.00	109.6 PK			2.06 V	66	105.5	4.1
5	*5500.00	100.2 AV			2.06 V	66	96.1	4.1
6	11000.00	55.8 PK	74.0	-18.2	3.92 V	267	40.4	15.4
7	11000.00	42.1 AV	54.0	-11.9	3.92 V	267	26.7	15.4
8	#16500.00	51.7 PK	68.2	-16.5	3.02 V	353	34.6	17.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

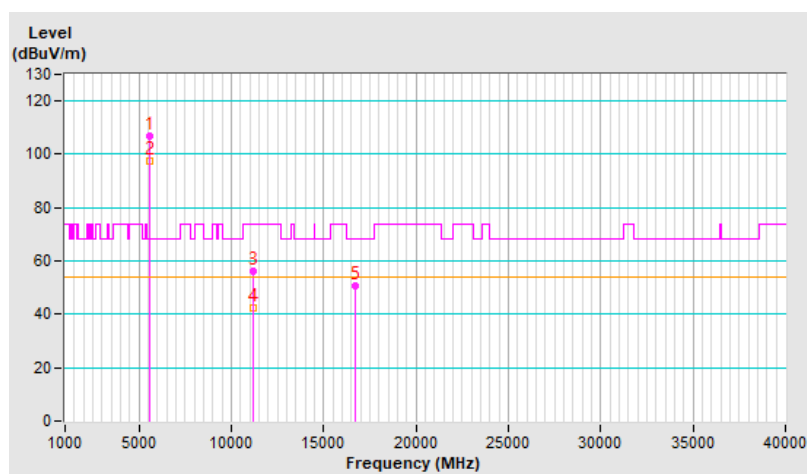


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	107.0 PK			1.21 H	98	102.8	4.2
2	*5580.00	97.4 AV			1.21 H	98	93.2	4.2
3	11160.00	56.4 PK	74.0	-17.6	3.91 H	253	41.5	14.9
4	11160.00	42.3 AV	54.0	-11.7	3.91 H	253	27.4	14.9
5	#16740.00	50.8 PK	68.2	-17.4	3.13 H	360	33.0	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

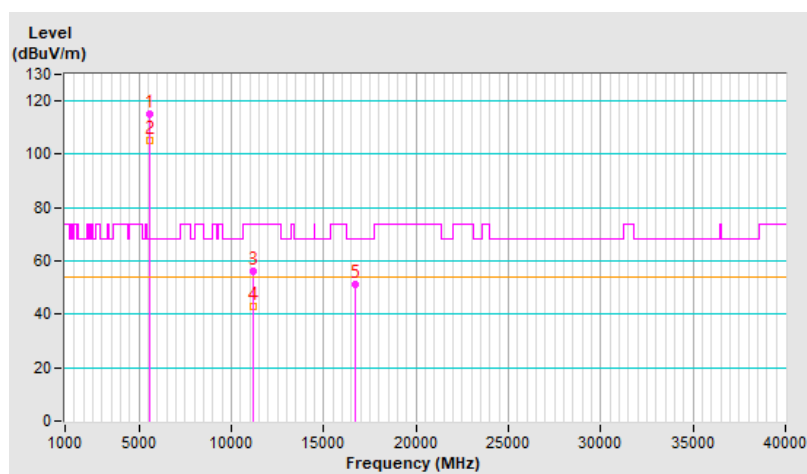


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.2 PK			2.02 V	51	111.0	4.2
2	*5580.00	105.0 AV			2.02 V	51	100.8	4.2
3	11160.00	56.3 PK	74.0	-17.7	3.95 V	274	41.4	14.9
4	11160.00	42.7 AV	54.0	-11.3	3.95 V	274	27.8	14.9
5	#16740.00	51.1 PK	68.2	-17.1	3.06 V	360	33.3	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

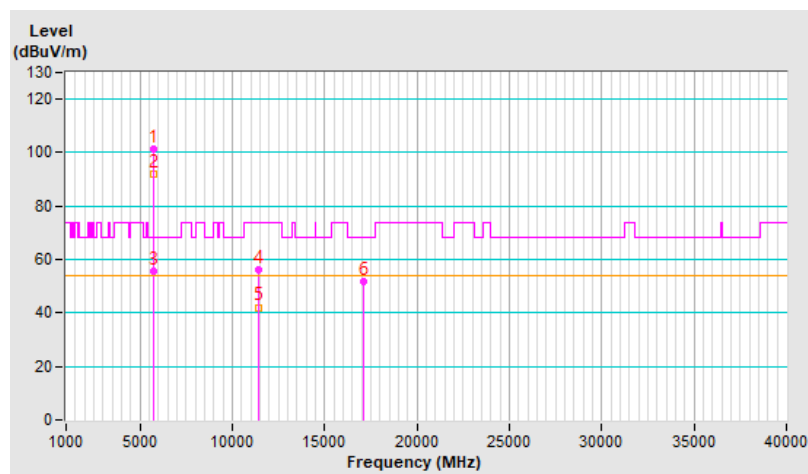


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	101.1 PK			2.22 H	88	97.0	4.1
2	*5700.00	91.8 AV			2.22 H	88	87.7	4.1
3	#5725.00	55.7 PK	68.2	-12.5	2.22 H	88	51.6	4.1
4	11400.00	56.0 PK	74.0	-18.0	3.98 H	255	41.0	15.0
5	11400.00	42.1 AV	54.0	-11.9	3.98 H	255	27.1	15.0
6	#17100.00	51.6 PK	68.2	-16.6	3.10 H	360	34.6	17.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

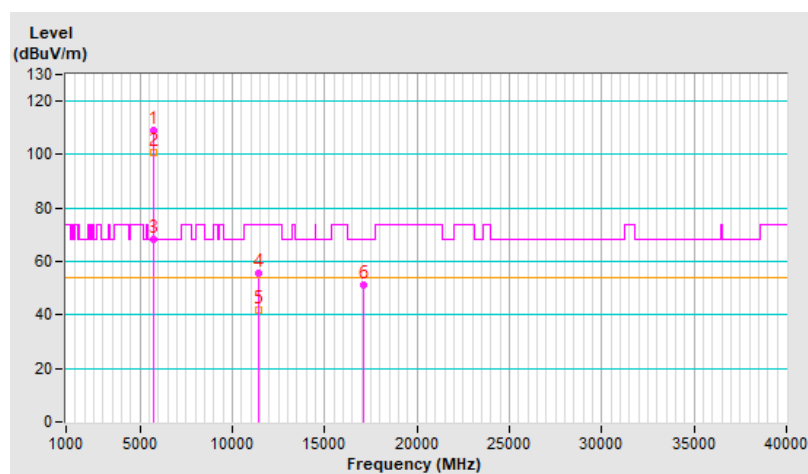


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	108.8 PK			2.22 V	157	104.7	4.1
2	*5700.00	100.6 AV			2.22 V	157	96.5	4.1
3	#5725.00	68.1 PK	68.2	-0.1	2.22 V	157	64.0	4.1
4	11400.00	55.6 PK	74.0	-18.4	3.94 V	264	40.6	15.0
5	11400.00	41.8 AV	54.0	-12.2	3.94 V	264	26.8	15.0
6	#17100.00	51.3 PK	68.2	-16.9	3.07 V	347	34.3	17.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

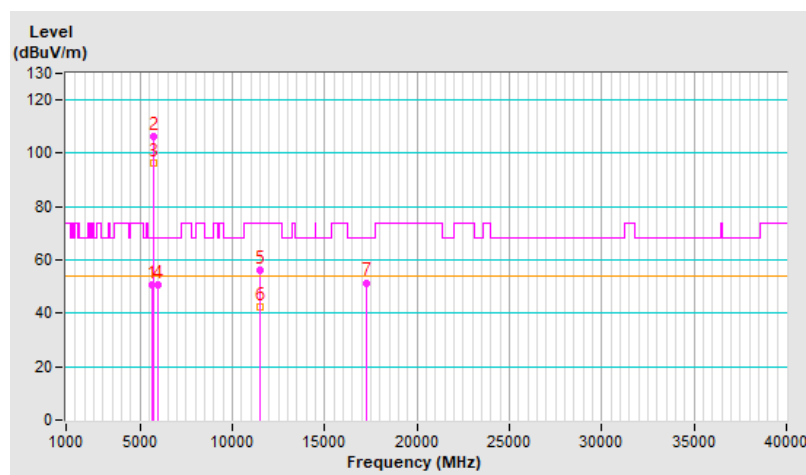


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.11	50.6 PK	68.2	-17.6	1.12 H	82	46.4	4.2
2	*5745.00	106.1 PK			1.12 H	82	101.9	4.2
3	*5745.00	96.5 AV			1.12 H	82	92.3	4.2
4	#5937.51	50.7 PK	68.2	-17.5	1.12 H	82	46.0	4.7
5	11490.00	56.3 PK	74.0	-17.7	3.93 H	259	41.2	15.1
6	11490.00	42.6 AV	54.0	-11.4	3.93 H	259	27.5	15.1
7	#17235.00	51.5 PK	68.2	-16.7	3.09 H	360	33.4	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

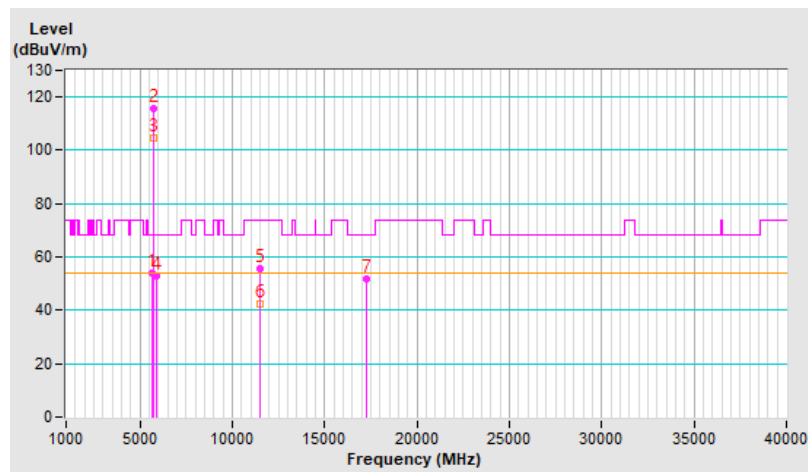


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.41	53.8 PK	68.2	-14.4	2.05 V	55	49.8	4.0
2	*5745.00	115.6 PK			2.05 V	55	111.4	4.2
3	*5745.00	104.7 AV			2.05 V	55	100.5	4.2
4	#5928.43	53.0 PK	68.2	-15.2	2.05 V	55	48.2	4.8
5	11490.00	55.8 PK	74.0	-18.2	3.91 V	263	40.7	15.1
6	11490.00	42.3 AV	54.0	-11.7	3.91 V	263	27.2	15.1
7	#17235.00	52.0 PK	68.2	-16.2	3.07 V	353	33.9	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

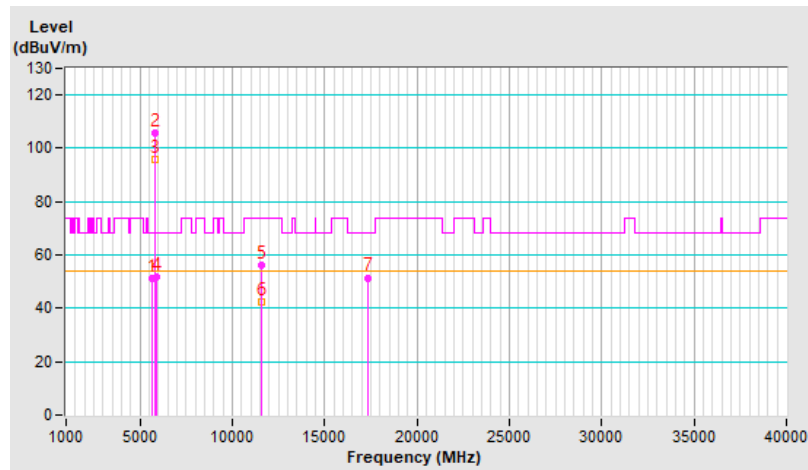


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.49	51.3 PK	68.2	-16.9	1.34 H	95	47.3	4.0
2	*5785.00	105.6 PK			1.34 H	95	101.1	4.5
3	*5785.00	95.8 AV			1.34 H	95	91.3	4.5
4	#5925.61	51.7 PK	68.2	-16.5	1.34 H	95	46.9	4.8
5	11570.00	56.1 PK	74.0	-17.9	3.92 H	247	41.1	15.0
6	11570.00	42.5 AV	54.0	-11.5	3.92 H	247	27.5	15.0
7	#17355.00	51.5 PK	68.2	-16.7	3.05 H	360	32.0	19.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

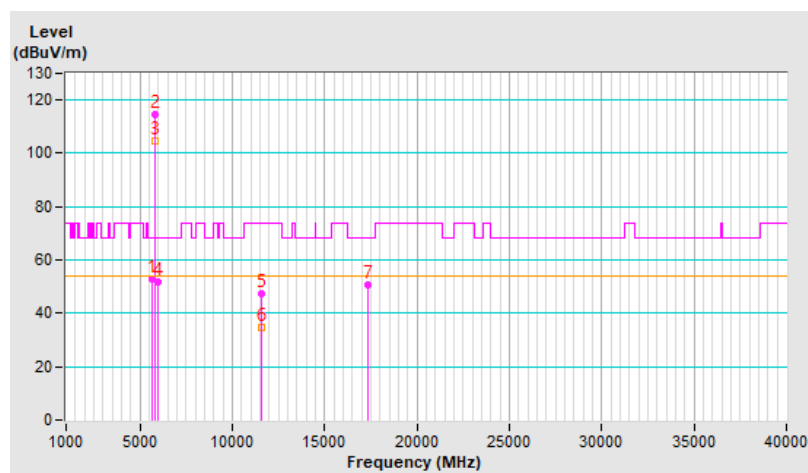


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.10	52.9 PK	68.2	-15.3	1.93 V	53	48.9	4.0
2	*5785.00	114.6 PK			1.93 V	53	110.1	4.5
3	*5785.00	104.5 AV			1.93 V	53	100.0	4.5
4	#5941.52	51.6 PK	68.2	-16.6	1.93 V	53	46.9	4.7
5	11570.00	47.3 PK	74.0	-26.7	1.67 V	334	32.3	15.0
6	11570.00	34.8 AV	54.0	-19.2	1.67 V	334	19.8	15.0
7	#17355.00	50.6 PK	68.2	-17.6	2.95 V	344	31.1	19.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

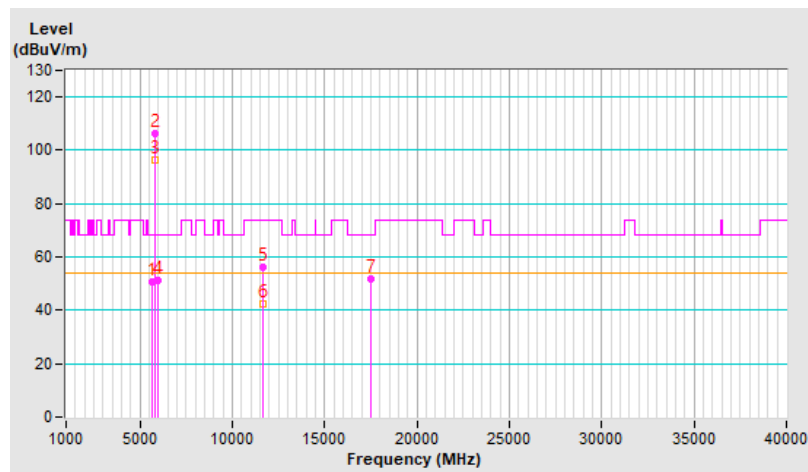


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.17	50.9 PK	68.2	-17.3	1.10 H	94	46.9	4.0
2	*5825.00	106.5 PK			1.10 H	94	101.9	4.6
3	*5825.00	96.6 AV			1.10 H	94	92.0	4.6
4	#5944.30	51.4 PK	68.2	-16.8	1.10 H	94	46.7	4.7
5	11650.00	56.4 PK	74.0	-17.6	3.98 H	267	41.5	14.9
6	11650.00	42.2 AV	54.0	-11.8	3.98 H	267	27.3	14.9
7	#17475.00	51.6 PK	68.2	-16.6	3.04 H	360	30.6	21.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

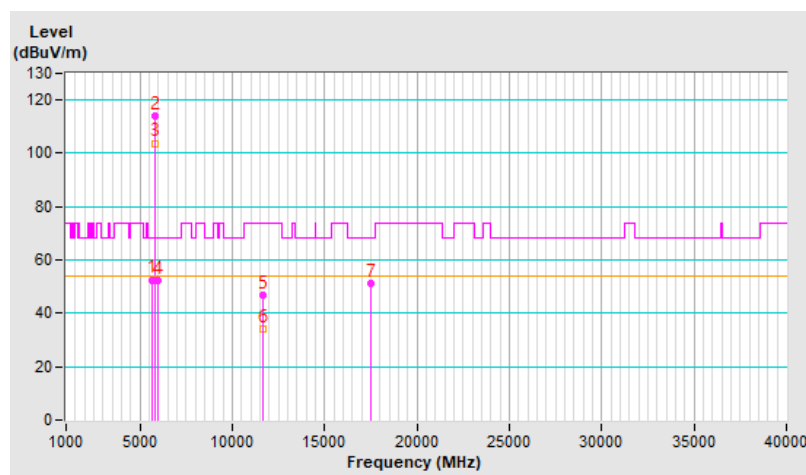


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23 °C, 74 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.12	52.6 PK	68.2	-15.6	1.78 V	159	48.6	4.0
2	*5825.00	113.8 PK			1.78 V	159	109.2	4.6
3	*5825.00	103.8 AV			1.78 V	159	99.2	4.6
4	#5942.53	52.3 PK	68.2	-15.9	1.78 V	159	47.6	4.7
5	11650.00	46.7 PK	74.0	-27.3	1.61 V	339	31.8	14.9
6	11650.00	34.3 AV	54.0	-19.7	1.61 V	339	19.4	14.9
7	#17475.00	51.0 PK	68.2	-17.2	2.98 V	342	30.0	21.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



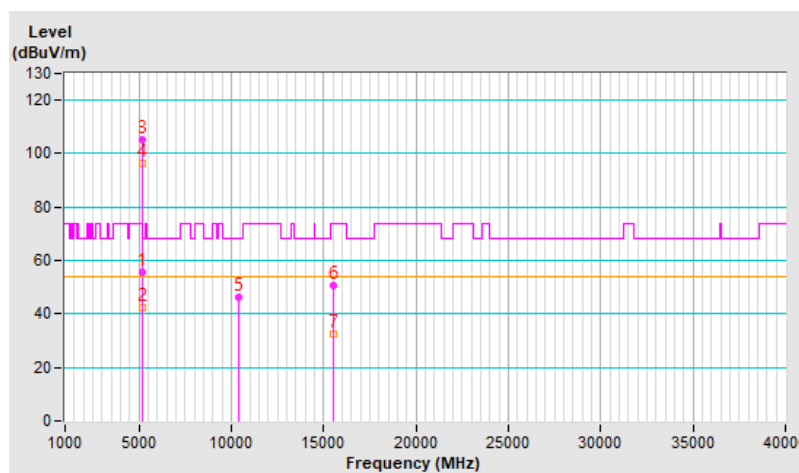
CDD

RF Mode	802.11n (HT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	1.52 H	348	51.8	3.9
2	5150.00	42.5 AV	54.0	-11.5	1.52 H	348	38.6	3.9
3	*5180.00	105.2 PK			1.52 H	348	101.2	4.0
4	*5180.00	96.2 AV			1.52 H	348	92.2	4.0
5	#10360.00	46.5 PK	68.2	-21.7	1.59 H	333	32.5	14.0
6	15540.00	50.8 PK	74.0	-23.2	3.03 H	351	35.5	15.3
7	15540.00	32.4 AV	54.0	-21.6	3.03 H	351	17.1	15.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

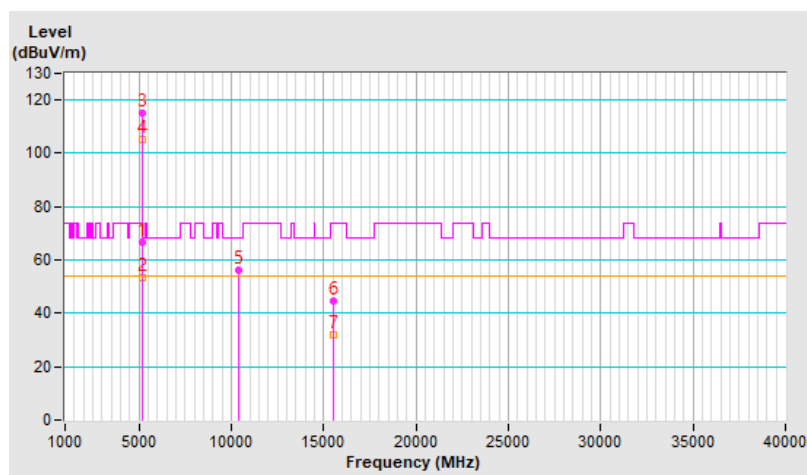


RF Mode	802.11n (HT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	2.45 V	225	62.7	3.9
2	5150.00	53.6 AV	54.0	-0.4	2.45 V	225	49.7	3.9
3	*5180.00	115.1 PK			2.45 V	225	111.1	4.0
4	*5180.00	105.4 AV			2.45 V	225	101.4	4.0
5	#10360.00	56.4 PK	68.2	-11.8	3.98 V	285	42.4	14.0
6	15540.00	44.5 PK	74.0	-29.5	2.22 V	307	29.2	15.3
7	15540.00	32.1 AV	54.0	-21.9	2.22 V	307	16.8	15.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

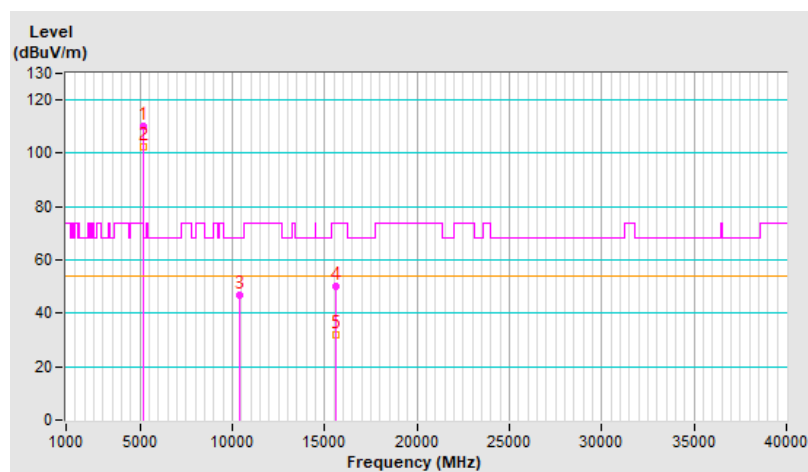


RF Mode	802.11n (HT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	110.0 PK			1.48 H	339	106.1	3.9
2	*5200.00	102.4 AV			1.48 H	339	98.5	3.9
3	#10400.00	46.8 PK	68.2	-21.4	1.61 H	347	32.7	14.1
4	15600.00	50.0 PK	74.0	-24.0	2.96 H	349	35.4	14.6
5	15600.00	32.0 AV	54.0	-22.0	2.96 H	349	17.4	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

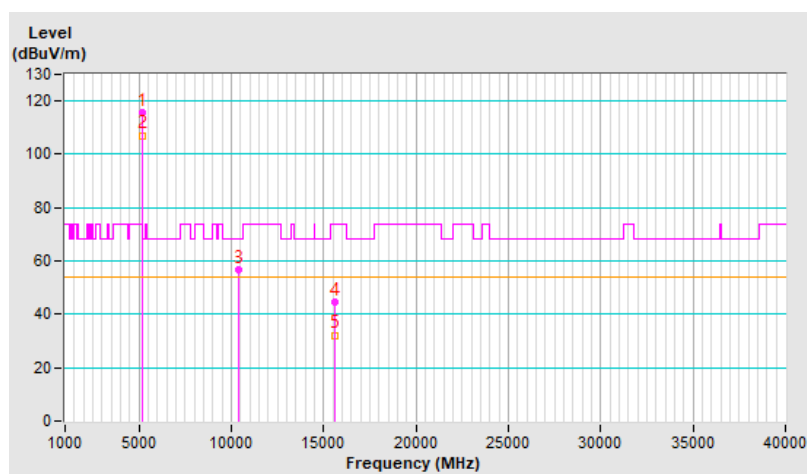


RF Mode	802.11n (HT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	115.5 PK			2.20 V	167	111.6	3.9
2	*5200.00	107.1 AV			2.20 V	167	103.2	3.9
3	#10400.00	56.7 PK	68.2	-11.5	3.95 V	274	42.6	14.1
4	15600.00	44.8 PK	74.0	-29.2	2.18 V	315	30.2	14.6
5	15600.00	32.2 AV	54.0	-21.8	2.18 V	315	17.6	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

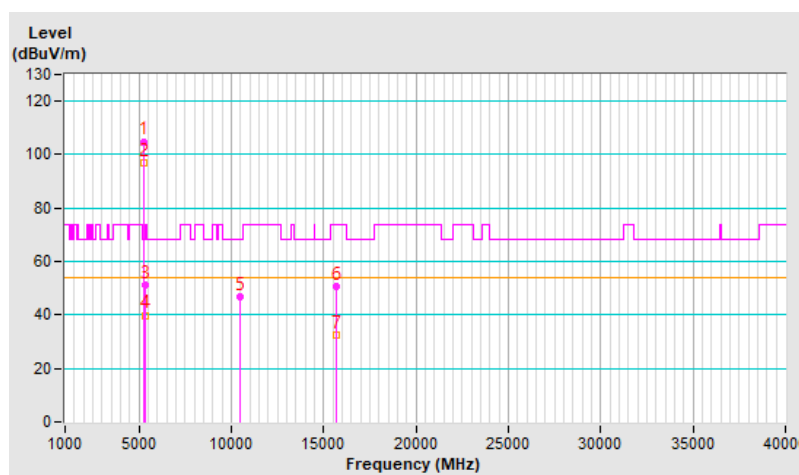


RF Mode	802.11n (HT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	104.9 PK			1.48 H	233	101.3	3.6
2	*5240.00	97.0 AV			1.48 H	233	93.4	3.6
3	5350.00	51.3 PK	74.0	-22.7	1.48 H	233	47.7	3.6
4	5350.00	39.9 AV	54.0	-14.1	1.48 H	233	36.3	3.6
5	#10480.00	46.9 PK	68.2	-21.3	1.62 H	343	32.5	14.4
6	15720.00	50.5 PK	74.0	-23.5	2.94 H	345	35.8	14.7
7	15720.00	32.4 AV	54.0	-21.6	2.94 H	345	17.7	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

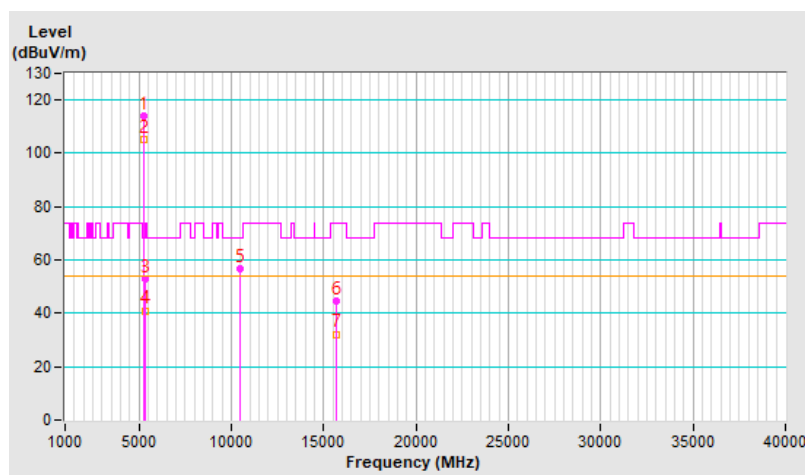


RF Mode	802.11n (HT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	114.2 PK			2.27 V	176	110.6	3.6
2	*5240.00	105.4 AV			2.27 V	176	101.8	3.6
3	5350.00	53.0 PK	74.0	-21.0	2.27 V	176	49.4	3.6
4	5350.00	41.0 AV	54.0	-13.0	2.27 V	176	37.4	3.6
5	#10480.00	56.9 PK	68.2	-11.3	3.93 V	278	42.5	14.4
6	15720.00	44.8 PK	74.0	-29.2	2.18 V	316	30.1	14.7
7	15720.00	32.2 AV	54.0	-21.8	2.18 V	316	17.5	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

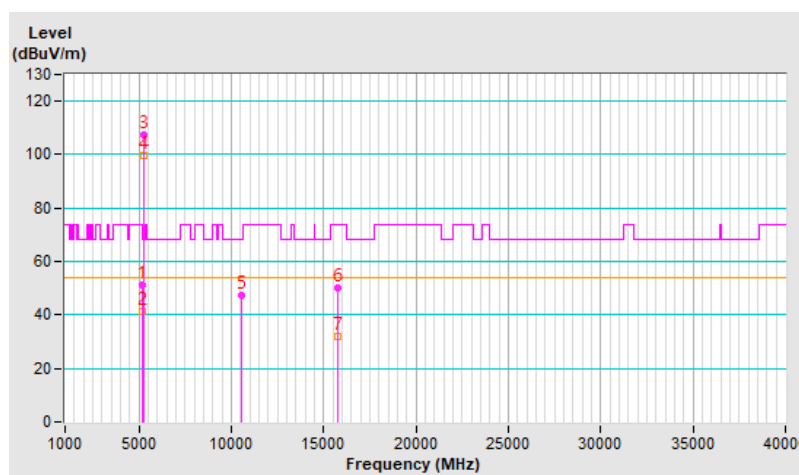


RF Mode	802.11n (HT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.4 PK	74.0	-22.6	1.15 H	352	47.5	3.9
2	5150.00	41.5 AV	54.0	-12.5	1.15 H	352	37.6	3.9
3	*5260.00	107.2 PK			1.15 H	352	103.7	3.5
4	*5260.00	99.5 AV			1.15 H	352	96.0	3.5
5	#10520.00	47.5 PK	68.2	-20.7	1.56 H	347	33.1	14.4
6	15780.00	50.2 PK	74.0	-23.8	3.03 H	355	35.6	14.6
7	15780.00	31.7 AV	54.0	-22.3	3.03 H	355	17.1	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

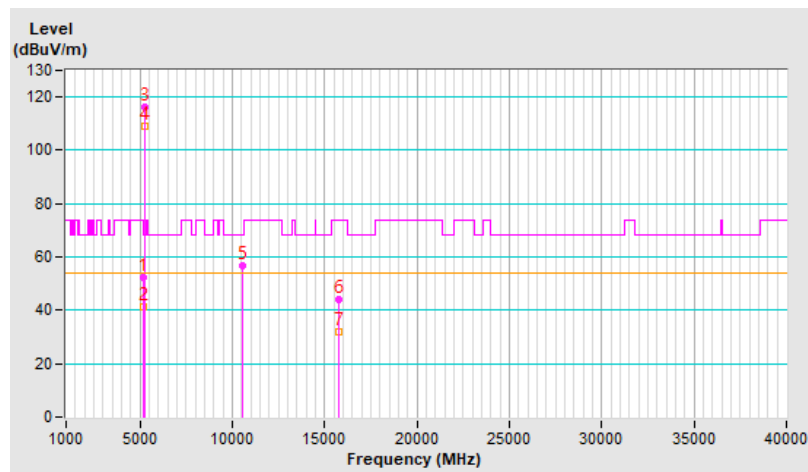


RF Mode	802.11n (HT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.2 PK	74.0	-21.8	1.94 V	170	48.3	3.9
2	5150.00	41.3 AV	54.0	-12.7	1.94 V	170	37.4	3.9
3	*5260.00	116.4 PK			1.94 V	170	112.9	3.5
4	*5260.00	108.9 AV			1.94 V	170	105.4	3.5
5	#10520.00	56.5 PK	68.2	-11.7	3.92 V	278	42.1	14.4
6	15780.00	44.3 PK	74.0	-29.7	2.18 V	312	29.7	14.6
7	15780.00	31.7 AV	54.0	-22.3	2.18 V	312	17.1	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

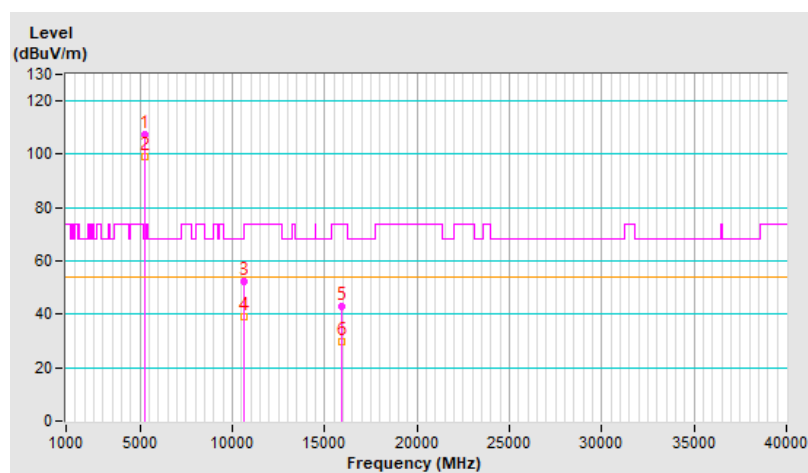


RF Mode	802.11n (HT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	107.6 PK			1.00 H	135	104.1	3.5
2	*5300.00	98.9 AV			1.00 H	135	95.4	3.5
3	10600.00	52.4 PK	74.0	-21.6	3.98 H	51	37.8	14.6
4	10600.00	39.3 AV	54.0	-14.7	3.98 H	51	24.7	14.6
5	15900.00	42.9 PK	74.0	-31.1	1.79 H	171	28.2	14.7
6	15900.00	29.6 AV	54.0	-24.4	1.79 H	171	14.9	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

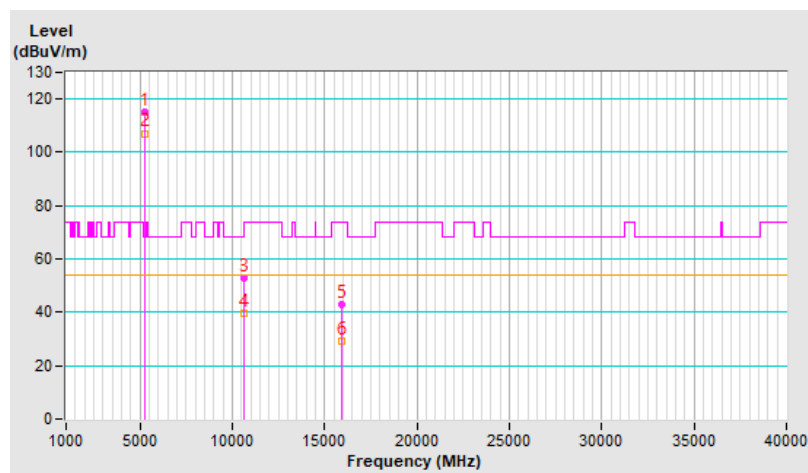


RF Mode	802.11n (HT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.3 PK			2.97 V	174	111.8	3.5
2	*5300.00	107.1 AV			2.97 V	174	103.6	3.5
3	10600.00	52.9 PK	74.0	-21.1	3.95 V	35	38.3	14.6
4	10600.00	39.5 AV	54.0	-14.5	3.95 V	35	24.9	14.6
5	15900.00	42.7 PK	74.0	-31.3	1.84 V	177	28.0	14.7
6	15900.00	29.4 AV	54.0	-24.6	1.84 V	177	14.7	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

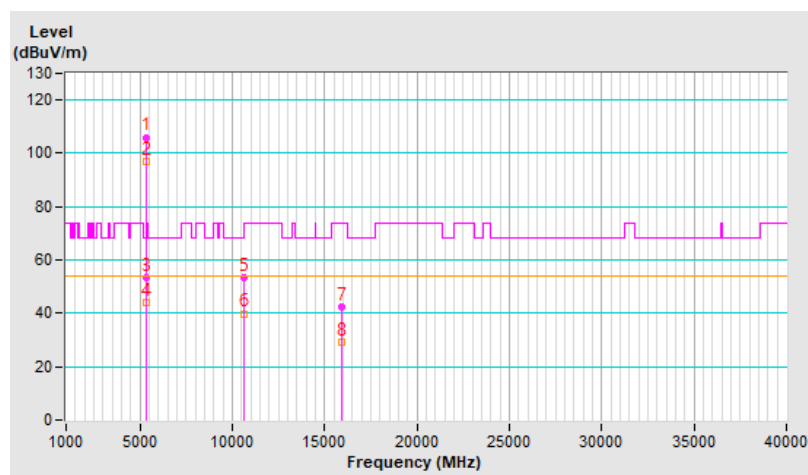


RF Mode	802.11n (HT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	106.0 PK			2.78 H	344	102.5	3.5
2	*5320.00	97.1 AV			2.78 H	344	93.6	3.5
3	5350.00	53.4 PK	74.0	-20.6	2.78 H	344	49.8	3.6
4	5350.00	44.1 AV	54.0	-9.9	2.78 H	344	40.5	3.6
5	10640.00	53.6 PK	74.0	-20.4	3.98 H	24	39.0	14.6
6	10640.00	39.9 AV	54.0	-14.1	3.98 H	24	25.3	14.6
7	15960.00	42.4 PK	74.0	-31.6	1.83 H	175	27.4	15.0
8	15960.00	29.0 AV	54.0	-25.0	1.83 H	175	14.0	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

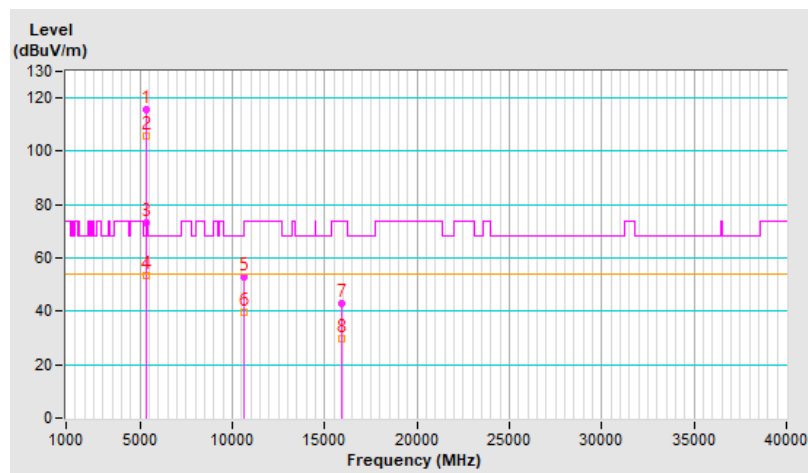


RF Mode	802.11n (HT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.7 PK			2.42 V	155	112.2	3.5
2	*5320.00	105.9 AV			2.42 V	155	102.4	3.5
3	5350.00	73.0 PK	74.0	-1.0	2.42 V	155	69.4	3.6
4	5350.00	53.4 AV	54.0	-0.6	2.42 V	155	49.8	3.6
5	10640.00	52.9 PK	74.0	-21.1	4.00 V	30	38.3	14.6
6	10640.00	39.7 AV	54.0	-14.3	4.00 V	30	25.1	14.6
7	15960.00	42.7 PK	74.0	-31.3	1.81 V	173	27.7	15.0
8	15960.00	29.5 AV	54.0	-24.5	1.81 V	173	14.5	15.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

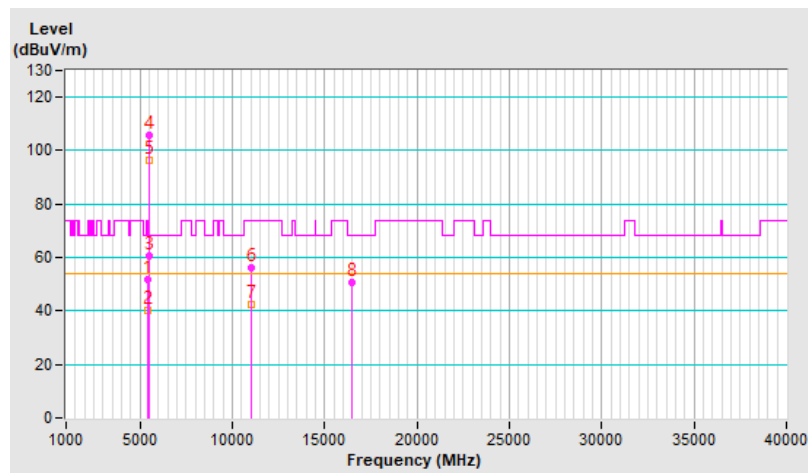


RF Mode	802.11n (HT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.9 PK	74.0	-22.1	1.28 H	174	47.9	4.0
2	5460.00	40.4 AV	54.0	-13.6	1.28 H	174	36.4	4.0
3	#5470.00	60.6 PK	68.2	-7.6	1.28 H	174	56.6	4.0
4	*5500.00	105.7 PK			1.28 H	174	101.6	4.1
5	*5500.00	96.6 AV			1.28 H	174	92.5	4.1
6	11000.00	56.3 PK	74.0	-17.7	3.86 H	328	40.9	15.4
7	11000.00	42.6 AV	54.0	-11.4	3.86 H	328	27.2	15.4
8	#16500.00	50.8 PK	68.2	-17.4	2.04 H	337	33.7	17.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

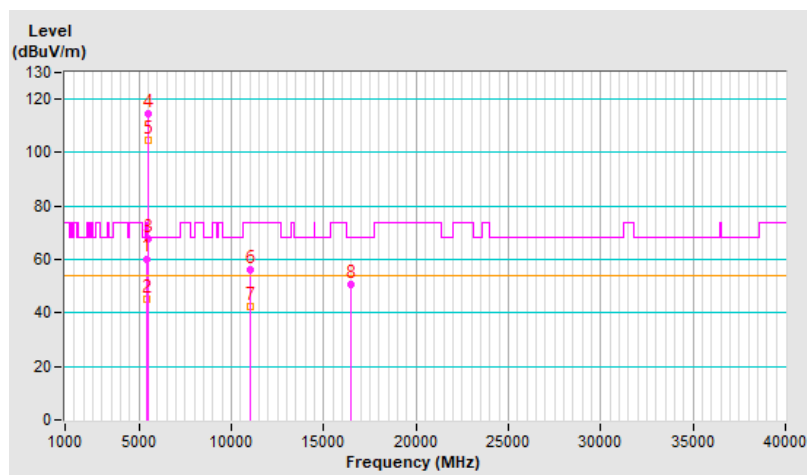


RF Mode	802.11n (HT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.3 PK	74.0	-13.7	2.48 V	300	56.3	4.0
2	5460.00	45.2 AV	54.0	-8.8	2.48 V	300	41.2	4.0
3	#5470.00	67.7 PK	68.2	-0.5	2.48 V	300	63.7	4.0
4	*5500.00	114.7 PK			2.48 V	300	110.6	4.1
5	*5500.00	104.5 AV			2.48 V	300	100.4	4.1
6	11000.00	56.1 PK	74.0	-17.9	3.83 V	335	40.7	15.4
7	11000.00	42.2 AV	54.0	-11.8	3.83 V	335	26.8	15.4
8	#16500.00	50.7 PK	68.2	-17.5	1.99 V	337	33.6	17.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

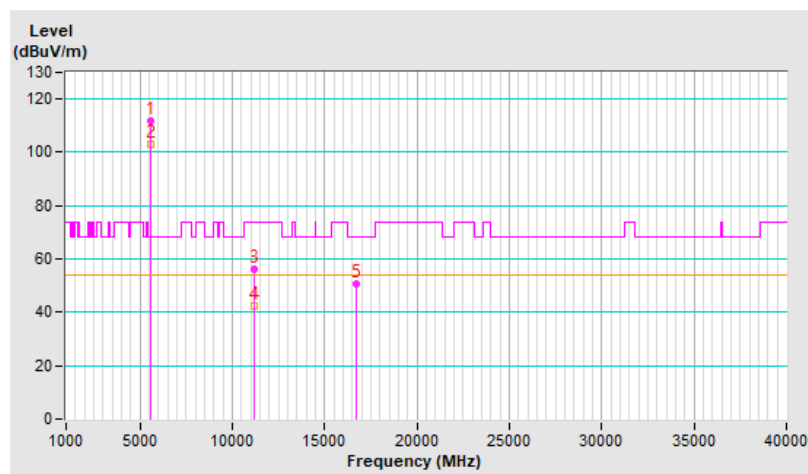


RF Mode	802.11n (HT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	112.0 PK			1.40 H	160	107.8	4.2
2	*5580.00	103.1 AV			1.40 H	160	98.9	4.2
3	11160.00	56.3 PK	74.0	-17.7	3.79 H	351	41.4	14.9
4	11160.00	42.5 AV	54.0	-11.5	3.79 H	351	27.6	14.9
5	#16740.00	50.6 PK	68.2	-17.6	1.98 H	337	32.8	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

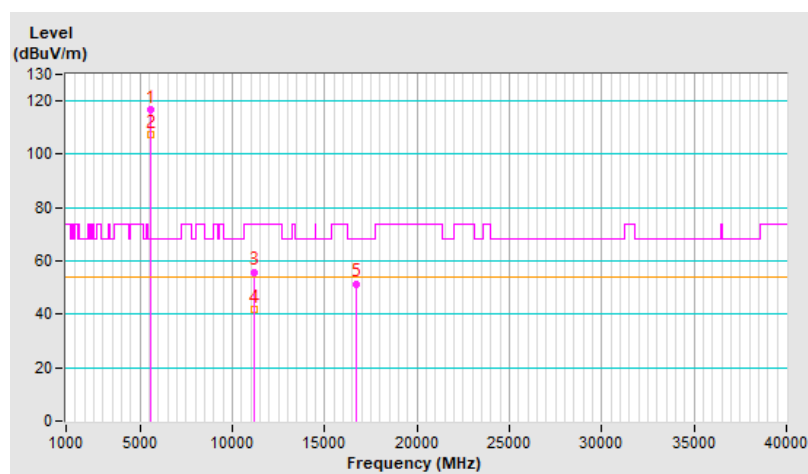


RF Mode	802.11n (HT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.9 PK			2.14 V	154	112.7	4.2
2	*5580.00	107.5 AV			2.14 V	154	103.3	4.2
3	11160.00	55.9 PK	74.0	-18.1	3.80 V	329	41.0	14.9
4	11160.00	42.0 AV	54.0	-12.0	3.80 V	329	27.1	14.9
5	#16740.00	51.5 PK	68.2	-16.7	2.00 V	348	33.7	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

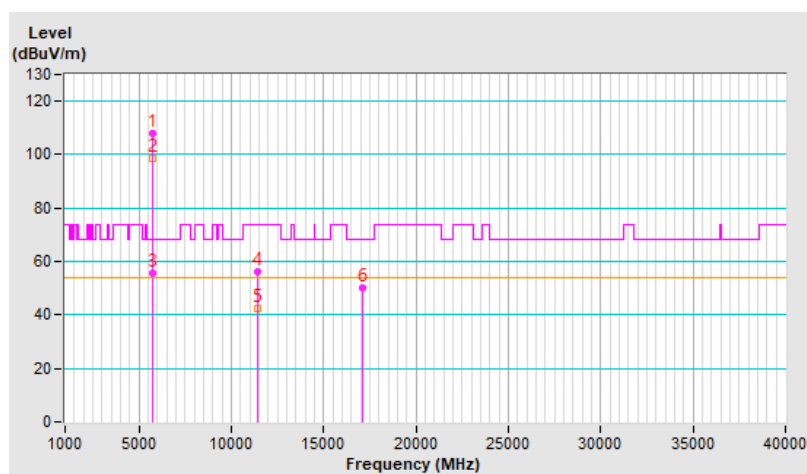


RF Mode	802.11n (HT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	107.9 PK			1.16 H	177	103.8	4.1
2	*5700.00	98.7 AV			1.16 H	177	94.6	4.1
3	#5725.00	55.7 PK	68.2	-12.5	1.16 H	177	51.6	4.1
4	11400.00	56.1 PK	74.0	-17.9	3.81 H	334	41.1	15.0
5	11400.00	42.3 AV	54.0	-11.7	3.81 H	334	27.3	15.0
6	#17100.00	50.3 PK	68.2	-17.9	2.03 H	341	33.3	17.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

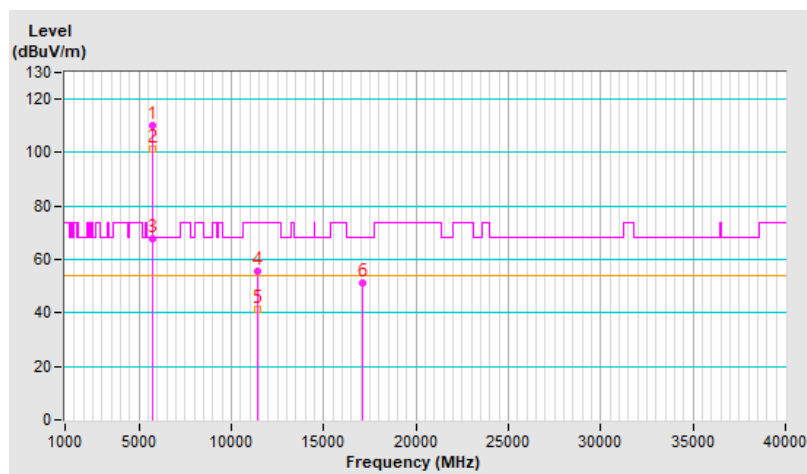


RF Mode	802.11n (HT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.2 PK			2.22 V	155	106.1	4.1
2	*5700.00	101.2 AV			2.22 V	155	97.1	4.1
3	#5725.00	67.9 PK	68.2	-0.3	2.22 V	155	63.8	4.1
4	11400.00	55.6 PK	74.0	-18.4	3.83 V	341	40.6	15.0
5	11400.00	41.5 AV	54.0	-12.5	3.83 V	341	26.5	15.0
6	#17100.00	51.3 PK	68.2	-16.9	1.98 V	358	34.3	17.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

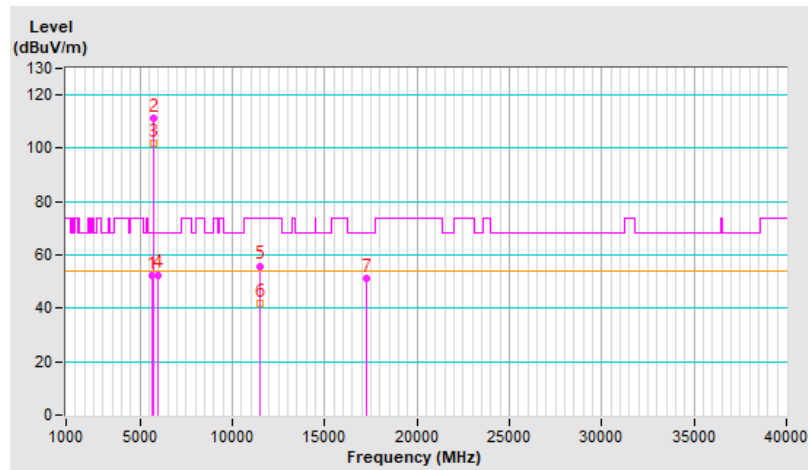


RF Mode	802.11n (HT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.74	52.4 PK	68.2	-15.8	1.00 H	148	48.4	4.0
2	*5745.00	111.3 PK			1.00 H	148	107.1	4.2
3	*5745.00	102.1 AV			1.00 H	148	97.9	4.2
4	#5954.64	52.6 PK	68.2	-15.6	1.00 H	148	47.9	4.7
5	11490.00	55.9 PK	74.0	-18.1	3.85 H	340	40.8	15.1
6	11490.00	41.7 AV	54.0	-12.3	3.85 H	340	26.6	15.1
7	#17235.00	51.0 PK	68.2	-17.2	1.94 H	331	32.9	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

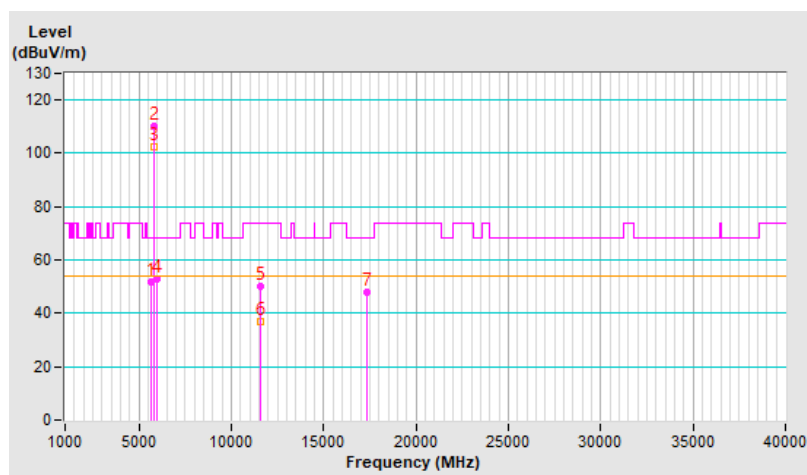


RF Mode	802.11n (HT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.64	52.0 PK	68.2	-16.2	1.03 H	176	47.8	4.2
2	*5785.00	110.0 PK			1.03 H	176	105.5	4.5
3	*5785.00	102.5 AV			1.03 H	176	98.0	4.5
4	#5951.70	52.9 PK	68.2	-15.3	1.03 H	176	48.2	4.7
5	11570.00	50.3 PK	74.0	-23.7	1.84 H	328	35.3	15.0
6	11570.00	36.7 AV	54.0	-17.3	1.84 H	328	21.7	15.0
7	#17355.00	47.7 PK	68.2	-20.5	3.21 H	342	28.2	19.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

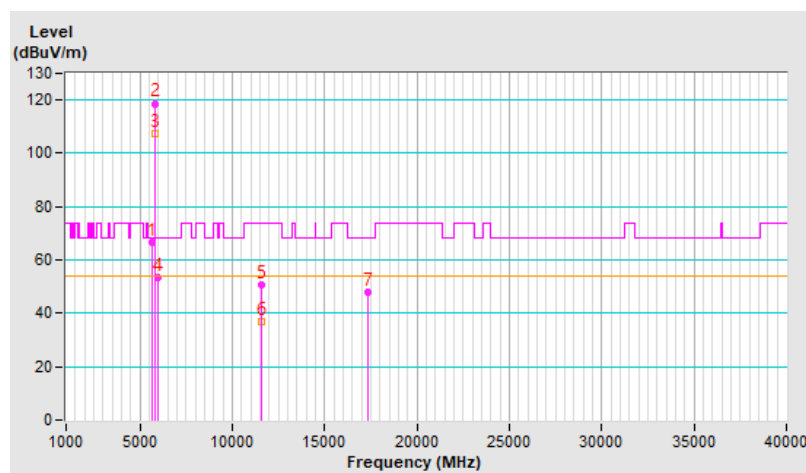


RF Mode	802.11n (HT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.65	66.8 PK	68.2	-1.4	2.02 V	162	62.8	4.0
2	*5785.00	118.7 PK			2.02 V	162	114.2	4.5
3	*5785.00	107.6 AV			2.02 V	162	103.1	4.5
4	#5957.93	53.2 PK	68.2	-15.0	2.02 V	162	48.5	4.7
5	11570.00	50.4 PK	74.0	-23.6	1.80 V	332	35.4	15.0
6	11570.00	37.0 AV	54.0	-17.0	1.80 V	332	22.0	15.0
7	#17355.00	47.9 PK	68.2	-20.3	3.18 V	335	28.4	19.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

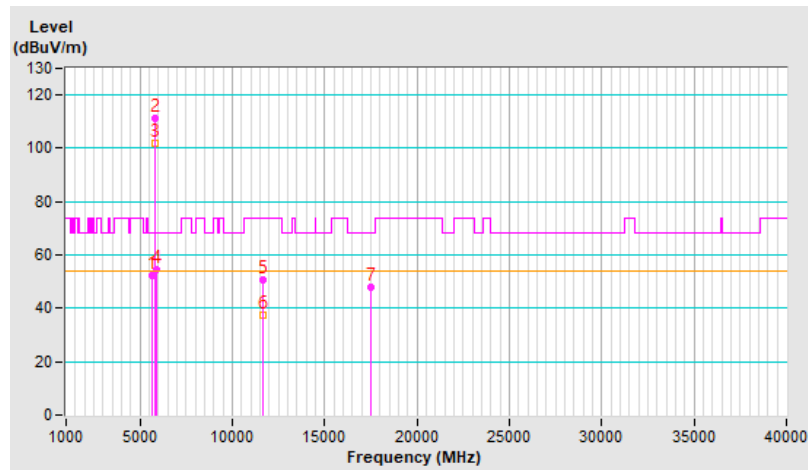


RF Mode	802.11n (HT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.82	52.4 PK	68.2	-15.8	1.00 H	176	48.4	4.0
2	*5825.00	111.3 PK			1.00 H	176	106.7	4.6
3	*5825.00	101.8 AV			1.00 H	176	97.2	4.6
4	#5929.61	54.6 PK	68.2	-13.6	1.00 H	176	49.8	4.8
5	11650.00	50.5 PK	74.0	-23.5	1.82 H	334	35.6	14.9
6	11650.00	37.2 AV	54.0	-16.8	1.82 H	334	22.3	14.9
7	#17475.00	47.9 PK	68.2	-20.3	3.21 H	334	26.9	21.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

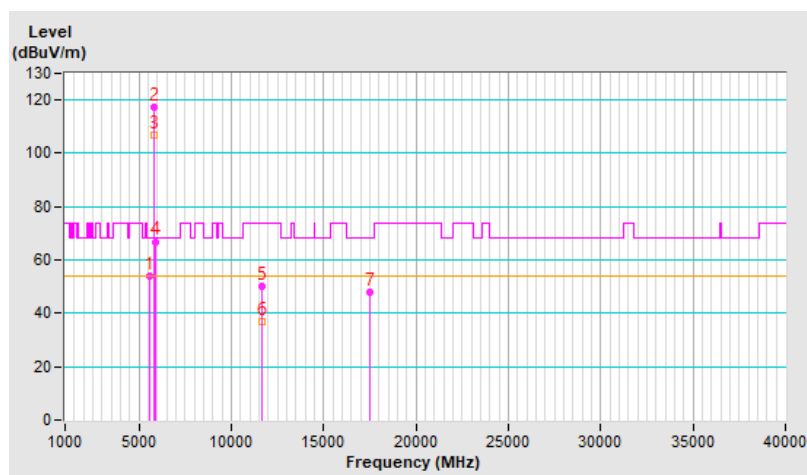


RF Mode	802.11n (HT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.44	53.9 PK	68.2	-14.3	2.05 V	149	49.7	4.2
2	*5825.00	117.1 PK			2.05 V	149	112.5	4.6
3	*5825.00	106.9 AV			2.05 V	149	102.3	4.6
4	#5918.96	66.9 PK	68.2	-1.3	2.05 V	149	62.1	4.8
5	11650.00	50.3 PK	74.0	-23.7	1.76 V	321	35.4	14.9
6	11650.00	36.9 AV	54.0	-17.1	1.76 V	321	22.0	14.9
7	#17475.00	47.8 PK	68.2	-20.4	3.16 V	322	26.8	21.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

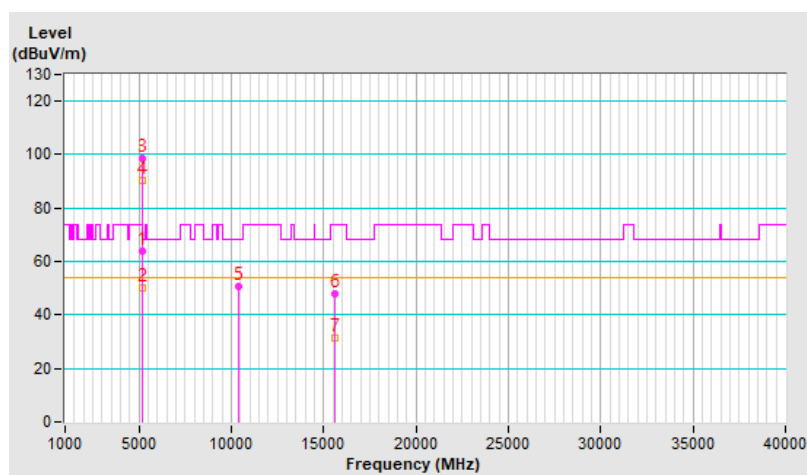


RF Mode	802.11n (HT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.7 PK	74.0	-10.3	1.07 H	131	59.8	3.9
2	5150.00	50.1 AV	54.0	-3.9	1.07 H	131	46.2	3.9
3	*5190.00	98.8 PK			1.07 H	131	94.9	3.9
4	*5190.00	90.1 AV			1.07 H	131	86.2	3.9
5	#10380.00	50.9 PK	68.2	-17.3	1.82 H	326	36.7	14.2
6	15570.00	48.1 PK	74.0	-25.9	3.18 H	341	33.2	14.9
7	15570.00	31.4 AV	54.0	-22.6	3.18 H	341	16.5	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

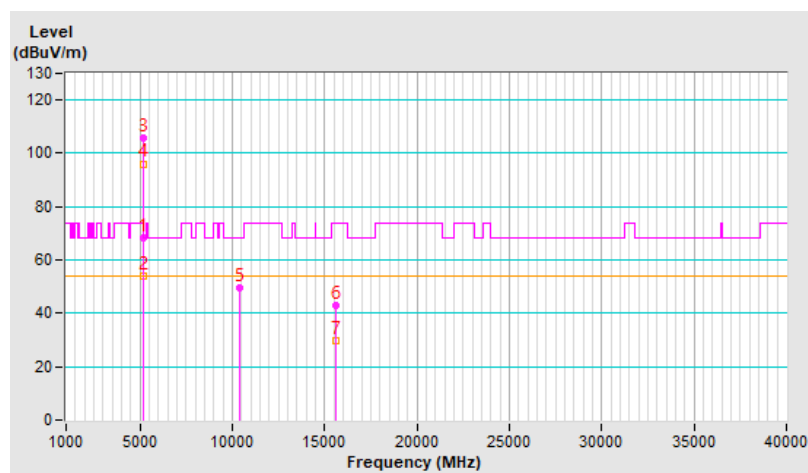


RF Mode	802.11n (HT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.2 PK	74.0	-5.8	2.09 V	220	64.3	3.9
2	5150.00	53.8 AV	54.0	-0.2	2.09 V	220	49.9	3.9
3	*5190.00	105.9 PK			2.09 V	220	102.0	3.9
4	*5190.00	96.1 AV			2.09 V	220	92.2	3.9
5	#10380.00	49.6 PK	68.2	-18.6	3.93 V	292	35.4	14.2
6	15570.00	42.9 PK	74.0	-31.1	3.41 V	290	28.0	14.9
7	15570.00	29.6 AV	54.0	-24.4	3.41 V	290	14.7	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

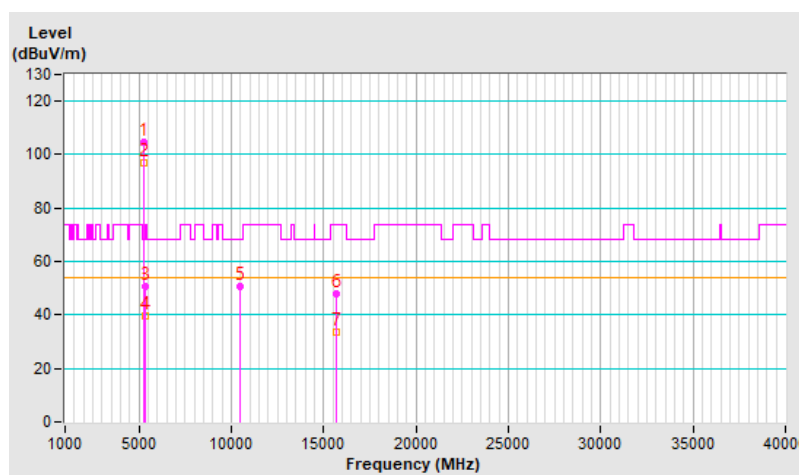


RF Mode	802.11n (HT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	104.8 PK			1.45 H	230	101.1	3.7
2	*5230.00	96.9 AV			1.45 H	230	93.2	3.7
3	5350.00	50.9 PK	74.0	-23.1	1.45 H	230	47.3	3.6
4	5350.00	39.7 AV	54.0	-14.3	1.45 H	230	36.1	3.6
5	#10460.00	50.6 PK	68.2	-17.6	1.78 H	333	36.3	14.3
6	15690.00	48.1 PK	74.0	-25.9	3.17 H	328	33.4	14.7
7	15690.00	33.4 AV	54.0	-20.6	3.17 H	328	18.7	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

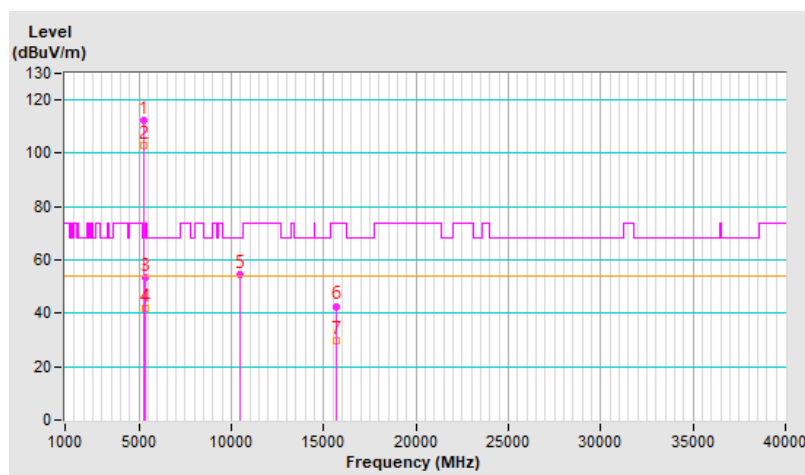


RF Mode	802.11n (HT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	112.5 PK			2.30 V	171	108.8	3.7
2	*5230.00	103.0 AV			2.30 V	171	99.3	3.7
3	5350.00	53.2 PK	74.0	-20.8	2.30 V	171	49.6	3.6
4	5350.00	41.6 AV	54.0	-12.4	2.30 V	171	38.0	3.6
5	#10460.00	54.5 PK	68.2	-13.7	4.00 V	271	40.2	14.3
6	15690.00	42.7 PK	74.0	-31.3	1.06 V	252	28.0	14.7
7	15690.00	29.8 AV	54.0	-24.2	1.06 V	252	15.1	14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

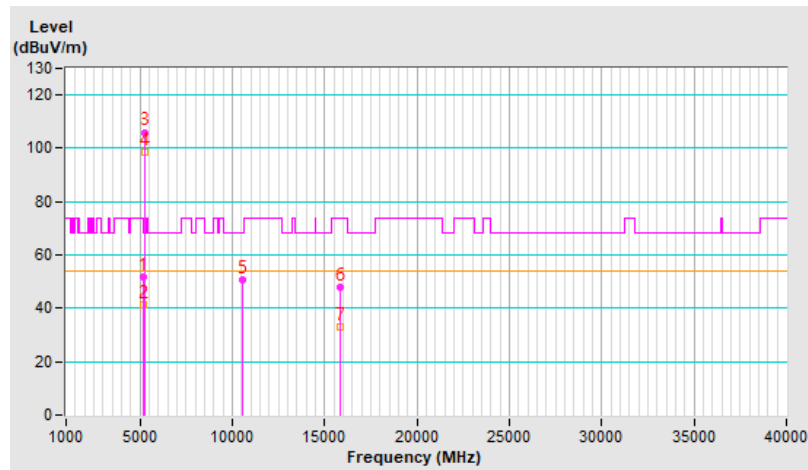


RF Mode	802.11n (HT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.6 PK	74.0	-22.4	1.22 H	351	47.7	3.9
2	5150.00	41.5 AV	54.0	-12.5	1.22 H	351	37.6	3.9
3	*5270.00	106.0 PK			1.22 H	351	102.5	3.5
4	*5270.00	98.8 AV			1.22 H	351	95.3	3.5
5	#10540.00	50.9 PK	68.2	-17.3	1.81 H	335	36.4	14.5
6	15810.00	47.9 PK	74.0	-26.1	3.20 H	347	33.3	14.6
7	15810.00	32.8 AV	54.0	-21.2	3.20 H	347	18.2	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

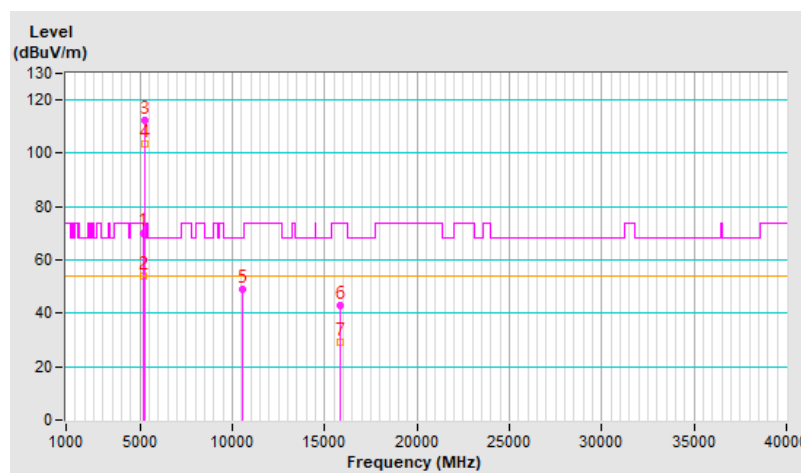


RF Mode	802.11n (HT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.2 PK	74.0	-3.8	2.10 V	176	66.3	3.9
2	5150.00	53.9 AV	54.0	-0.1	2.10 V	176	50.0	3.9
3	*5270.00	112.1 PK			2.10 V	176	108.6	3.5
4	*5270.00	103.4 AV			2.10 V	176	99.9	3.5
5	#10540.00	48.9 PK	68.2	-19.3	3.96 V	280	34.4	14.5
6	15810.00	42.8 PK	74.0	-31.2	3.47 V	294	28.2	14.6
7	15810.00	29.4 AV	54.0	-24.6	3.47 V	294	14.8	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

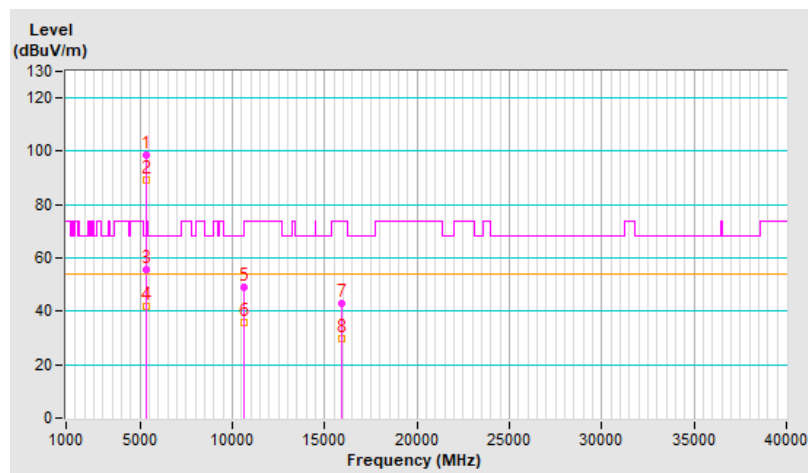


RF Mode	802.11n (HT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	98.4 PK			1.97 H	177	94.9	3.5
2	*5310.00	89.0 AV			1.97 H	177	85.5	3.5
3	5350.00	55.5 PK	74.0	-18.5	1.97 H	177	51.9	3.6
4	5350.00	41.6 AV	54.0	-12.4	1.97 H	177	38.0	3.6
5	10620.00	49.1 PK	74.0	-24.9	3.96 H	285	34.5	14.6
6	10620.00	35.9 AV	54.0	-18.1	3.96 H	285	21.3	14.6
7	15930.00	43.1 PK	74.0	-30.9	3.49 H	279	28.2	14.9
8	15930.00	29.6 AV	54.0	-24.4	3.49 H	279	14.7	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

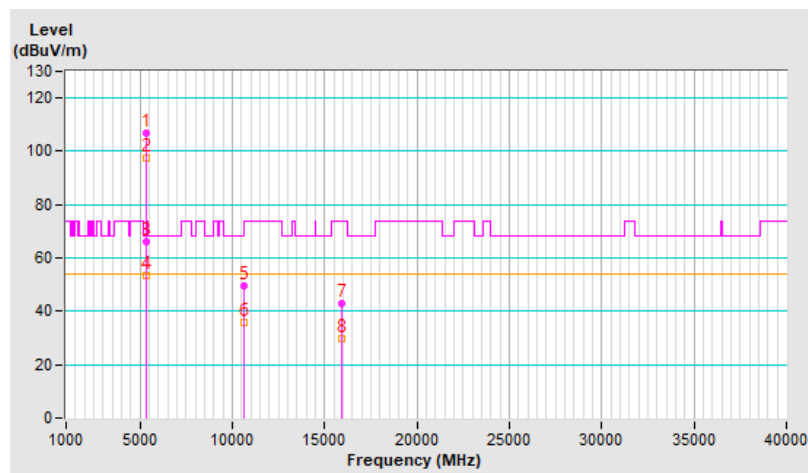


RF Mode	802.11n (HT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	106.8 PK			2.12 V	154	103.3	3.5
2	*5310.00	97.6 AV			2.12 V	154	94.1	3.5
3	5350.00	66.3 PK	74.0	-7.7	2.12 V	154	62.7	3.6
4	5350.00	53.4 AV	54.0	-0.6	2.12 V	154	49.8	3.6
5	10620.00	49.4 PK	74.0	-24.6	3.93 V	294	34.8	14.6
6	10620.00	36.0 AV	54.0	-18.0	3.93 V	294	21.4	14.6
7	15930.00	42.8 PK	74.0	-31.2	3.45 V	293	27.9	14.9
8	15930.00	29.6 AV	54.0	-24.4	3.45 V	293	14.7	14.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

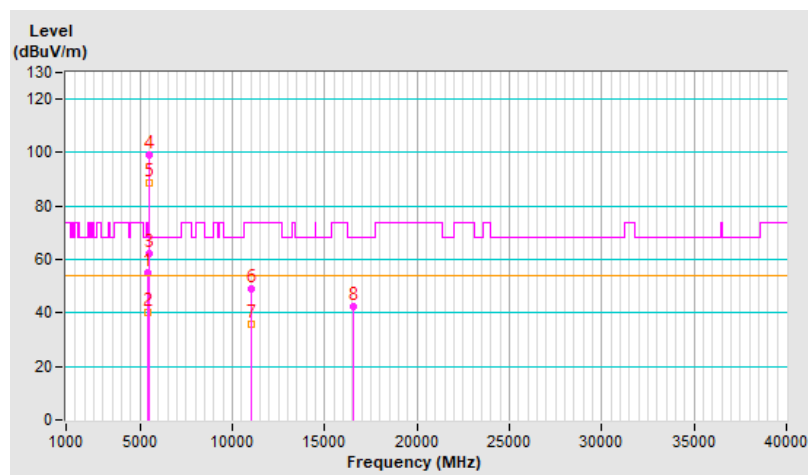


RF Mode	802.11n (HT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.9 PK	74.0	-19.1	1.25 H	176	50.9	4.0
2	5460.00	40.2 AV	54.0	-13.8	1.25 H	176	36.2	4.0
3	#5470.00	62.0 PK	68.2	-6.2	1.25 H	176	58.0	4.0
4	*5510.00	98.9 PK			1.25 H	176	94.8	4.1
5	*5510.00	88.9 AV			1.25 H	176	84.8	4.1
6	11020.00	48.8 PK	74.0	-25.2	3.94 H	278	33.5	15.3
7	11020.00	35.7 AV	54.0	-18.3	3.94 H	278	20.4	15.3
8	#16530.00	42.3 PK	68.2	-25.9	3.51 H	294	25.0	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

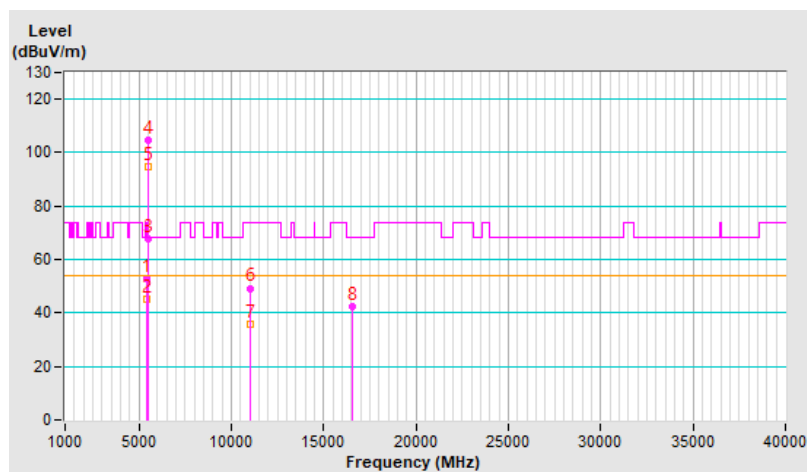


RF Mode	802.11n (HT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.8 PK	74.0	-21.2	2.33 V	222	48.8	4.0
2	5460.00	44.9 AV	54.0	-9.1	2.33 V	222	40.9	4.0
3	#5470.00	67.8 PK	68.2	-0.4	2.33 V	222	63.8	4.0
4	*5510.00	104.8 PK			2.33 V	222	100.7	4.1
5	*5510.00	94.9 AV			2.33 V	222	90.8	4.1
6	11020.00	49.3 PK	74.0	-24.7	3.92 V	291	34.0	15.3
7	11020.00	36.0 AV	54.0	-18.0	3.92 V	291	20.7	15.3
8	#16530.00	42.3 PK	68.2	-25.9	3.50 V	304	25.0	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

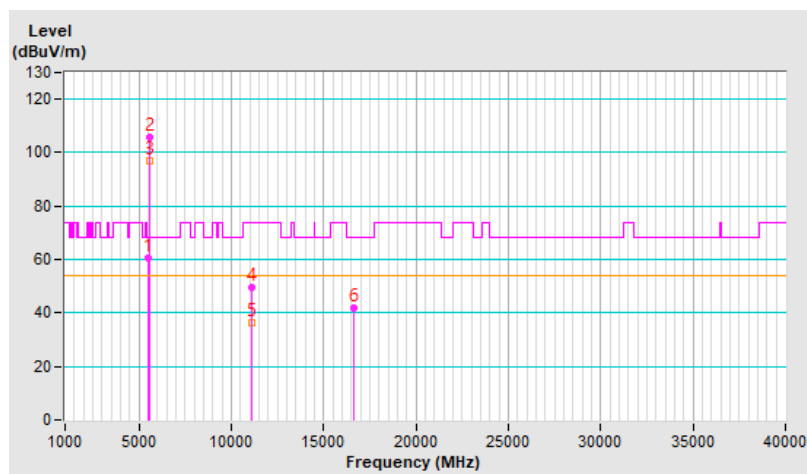


RF Mode	802.11n (HT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.8 PK	68.2	-7.4	1.31 H	184	56.8	4.0
2	*5550.00	105.7 PK			1.31 H	184	101.7	4.0
3	*5550.00	96.7 AV			1.31 H	184	92.7	4.0
4	11100.00	49.4 PK	74.0	-24.6	3.89 H	284	34.3	15.1
5	11100.00	36.1 AV	54.0	-17.9	3.89 H	284	21.0	15.1
6	#16650.00	42.0 PK	68.2	-26.2	3.54 H	289	24.2	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

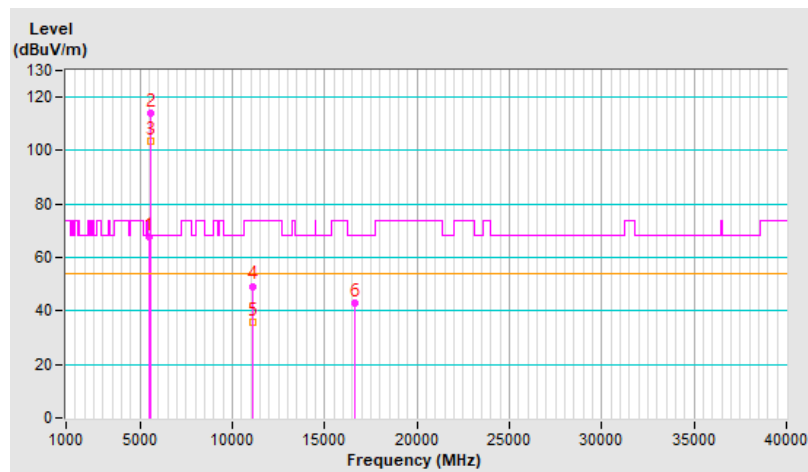


RF Mode	802.11n (HT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	67.8 PK	68.2	-0.4	2.26 V	160	63.8	4.0
2	*5550.00	113.9 PK			2.26 V	160	109.9	4.0
3	*5550.00	103.6 AV			2.26 V	160	99.6	4.0
4	11100.00	49.3 PK	74.0	-24.7	3.91 V	282	34.2	15.1
5	11100.00	36.0 AV	54.0	-18.0	3.91 V	282	20.9	15.1
6	#16650.00	42.7 PK	68.2	-25.5	3.51 V	297	24.9	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

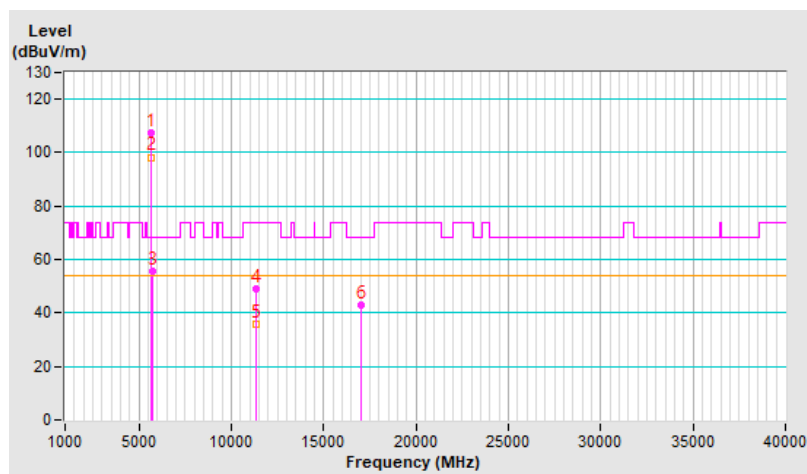


RF Mode	802.11n (HT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	107.6 PK			1.19 H	178	103.5	4.1
2	*5670.00	98.3 AV			1.19 H	178	94.2	4.1
3	#5725.00	55.6 PK	68.2	-12.6	1.19 H	178	51.5	4.1
4	11340.00	49.2 PK	74.0	-24.8	3.94 H	290	34.3	14.9
5	11340.00	35.8 AV	54.0	-18.2	3.94 H	290	20.9	14.9
6	#17010.00	42.9 PK	68.2	-25.3	3.48 H	313	25.4	17.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

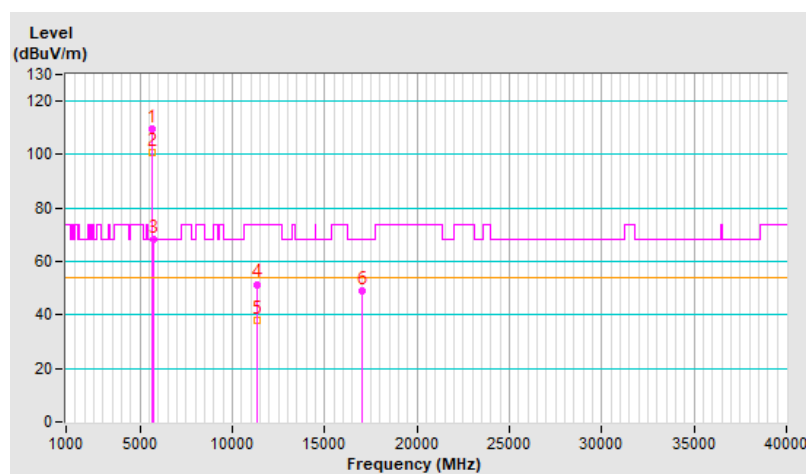


RF Mode	802.11n (HT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	109.4 PK			2.10 V	168	105.3	4.1
2	*5670.00	100.7 AV			2.10 V	168	96.6	4.1
3	#5725.00	68.1 PK	68.2	-0.1	2.10 V	168	64.0	4.1
4	11340.00	51.5 PK	74.0	-22.5	3.98 V	335	36.6	14.9
5	11340.00	37.9 AV	54.0	-16.1	3.98 V	335	23.0	14.9
6	#17010.00	49.1 PK	68.2	-19.1	3.50 V	347	31.6	17.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

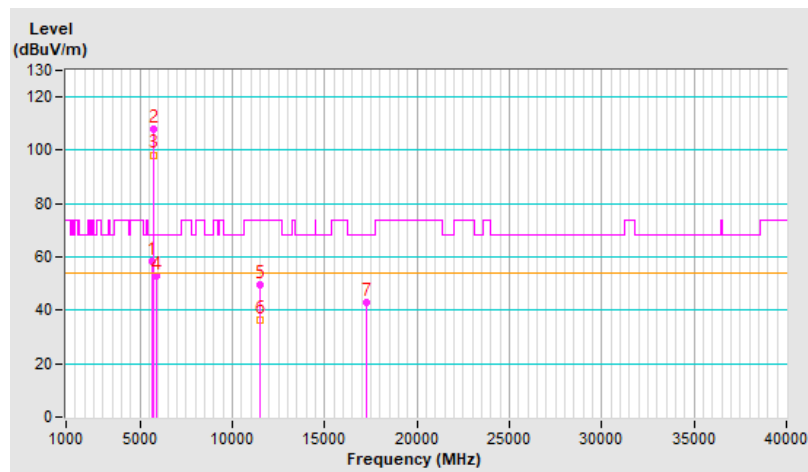


RF Mode	802.11n (HT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.18	58.6 PK	68.2	-9.6	1.03 H	177	54.6	4.0
2	*5755.00	107.9 PK			1.03 H	177	103.7	4.2
3	*5755.00	98.3 AV			1.03 H	177	94.1	4.2
4	#5927.70	52.7 PK	68.2	-15.5	1.03 H	177	47.9	4.8
5	11510.00	49.8 PK	74.0	-24.2	3.90 H	295	34.7	15.1
6	11510.00	36.2 AV	54.0	-17.8	3.90 H	295	21.1	15.1
7	#17265.00	42.9 PK	68.2	-25.3	3.45 H	316	24.5	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

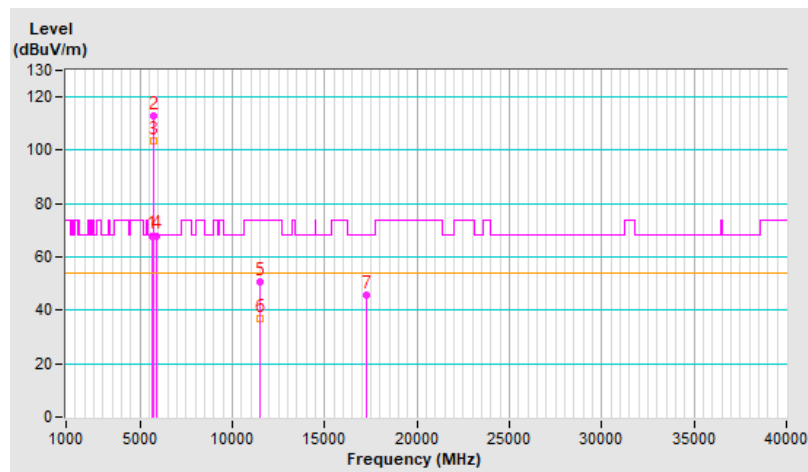


RF Mode	802.11n (HT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.58	68.0 PK	68.2	-0.2	2.20 V	148	64.0	4.0
2	*5755.00	113.1 PK			2.20 V	148	108.9	4.2
3	*5755.00	103.3 AV			2.20 V	148	99.1	4.2
4	#5927.45	68.0 PK	68.2	-0.2	2.20 V	148	63.2	4.8
5	11510.00	50.7 PK	74.0	-23.3	3.91 V	46	35.6	15.1
6	11510.00	37.1 AV	54.0	-16.9	3.91 V	46	22.0	15.1
7	#17265.00	45.9 PK	68.2	-22.3	3.25 V	331	27.5	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

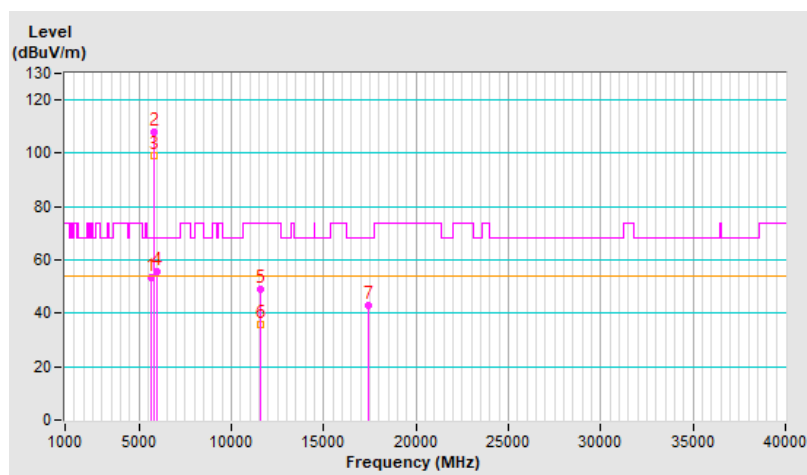


RF Mode	802.11n (HT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.89	53.4 PK	68.2	-14.8	1.05 H	176	49.2	4.2
2	*5795.00	107.7 PK			1.05 H	176	103.2	4.5
3	*5795.00	98.9 AV			1.05 H	176	94.4	4.5
4	#5943.18	55.5 PK	68.2	-12.7	1.05 H	176	50.8	4.7
5	11590.00	49.2 PK	74.0	-24.8	3.95 H	287	34.2	15.0
6	11590.00	36.0 AV	54.0	-18.0	3.95 H	287	21.0	15.0
7	#17385.00	42.7 PK	68.2	-25.5	3.51 H	315	22.8	19.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

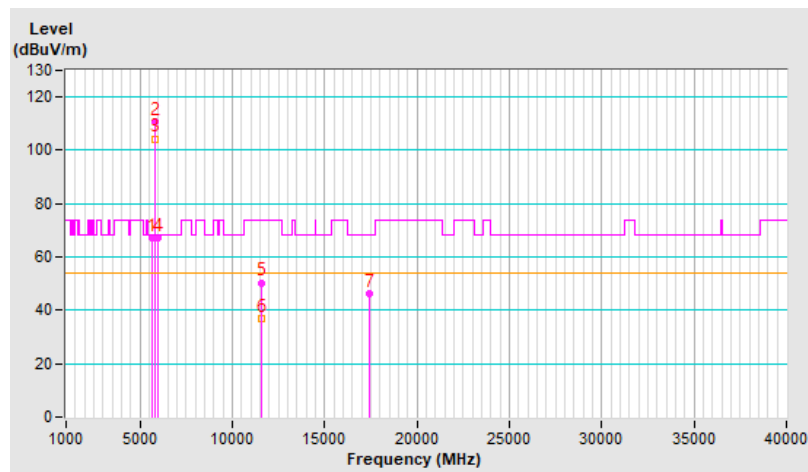


RF Mode	802.11n (HT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 73 % RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.79	67.1 PK	68.2	-1.1	2.08 V	145	63.1	4.0
2	*5795.00	110.6 PK			2.08 V	145	106.1	4.5
3	*5795.00	104.4 AV			2.08 V	145	99.9	4.5
4	#5937.96	67.4 PK	68.2	-0.8	2.08 V	145	62.7	4.7
5	11590.00	50.4 PK	74.0	-23.6	3.95 V	59	35.4	15.0
6	11590.00	36.8 AV	54.0	-17.2	3.95 V	59	21.8	15.0
7	#17385.00	46.2 PK	68.2	-22.0	3.22 V	334	26.3	19.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

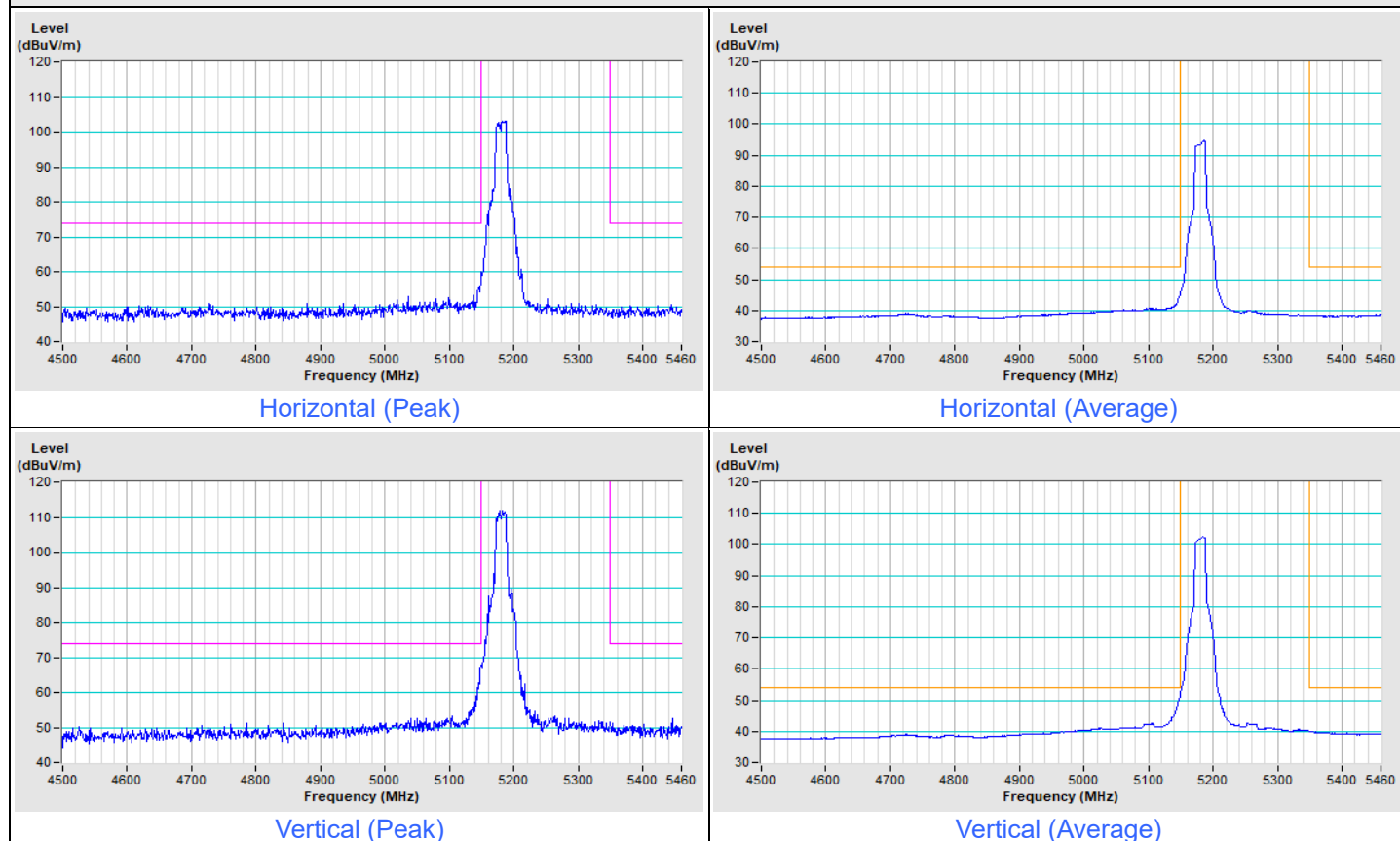


Plot of Band Edge

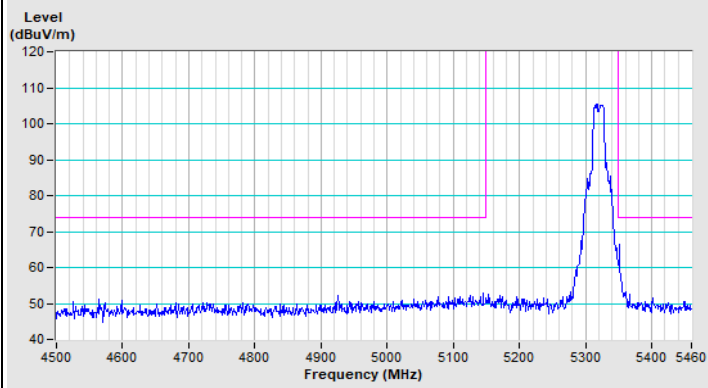
SISO

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
-----------------	--------------------	-------------------------------	--

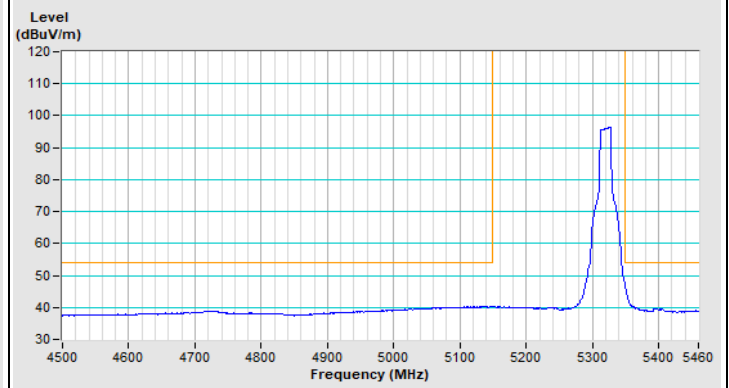
802.11a Channel 36



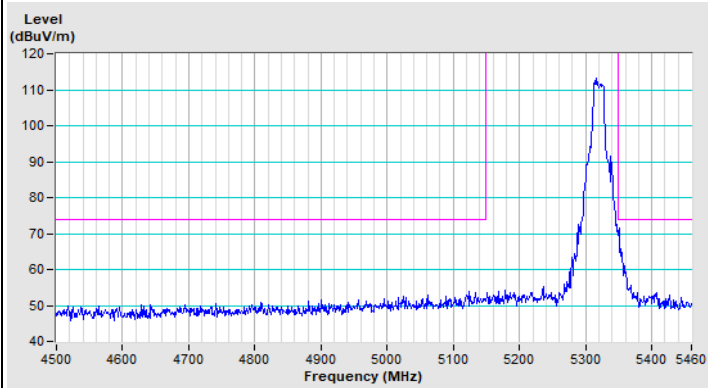
802.11a Channel 64



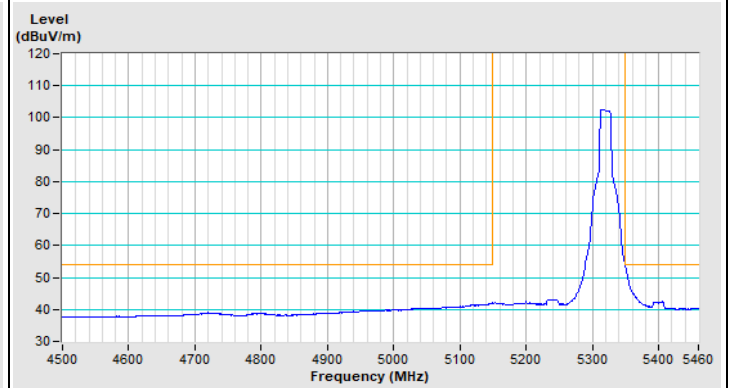
Horizontal (Peak)



Horizontal (Average)



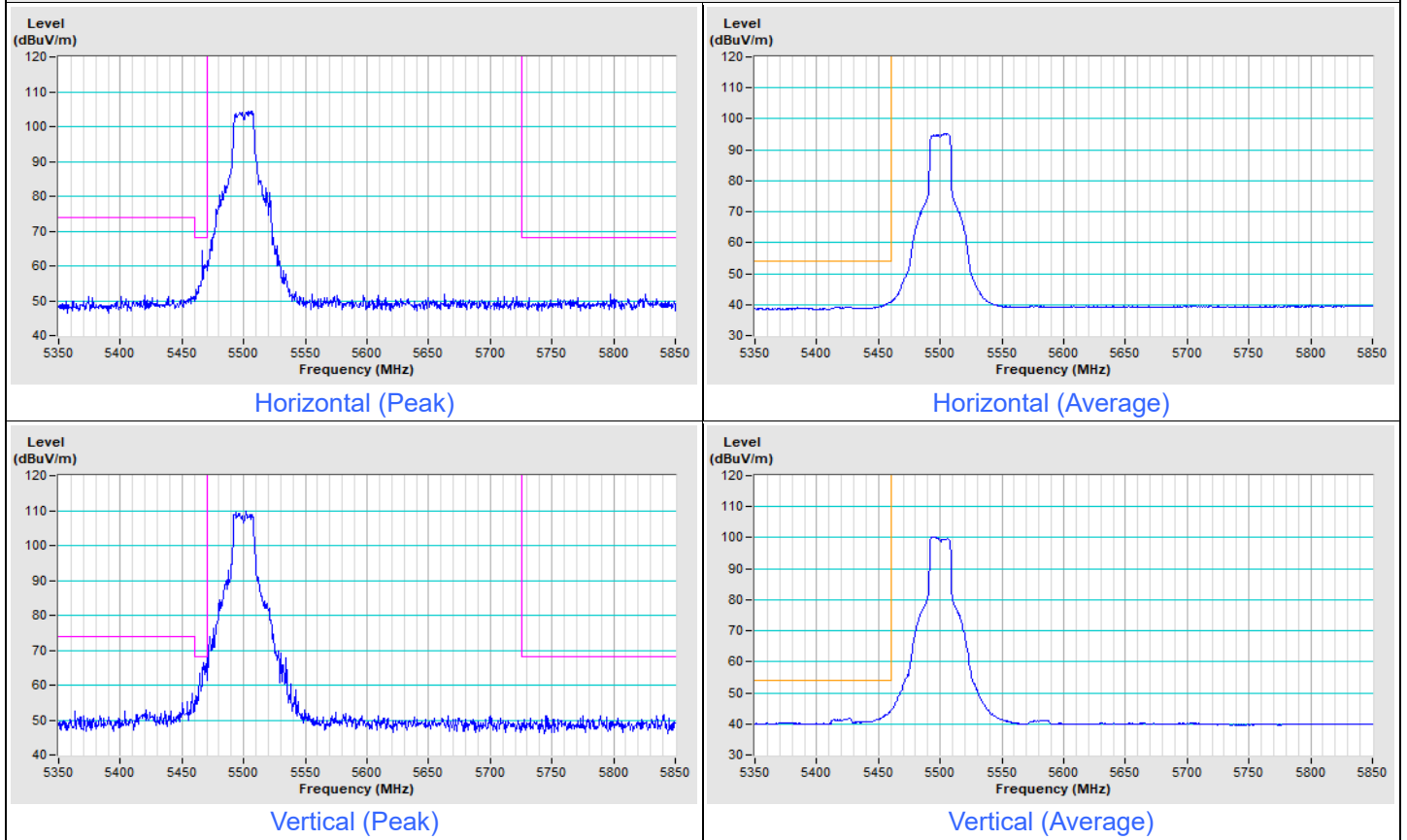
Vertical (Peak)



Vertical (Average)

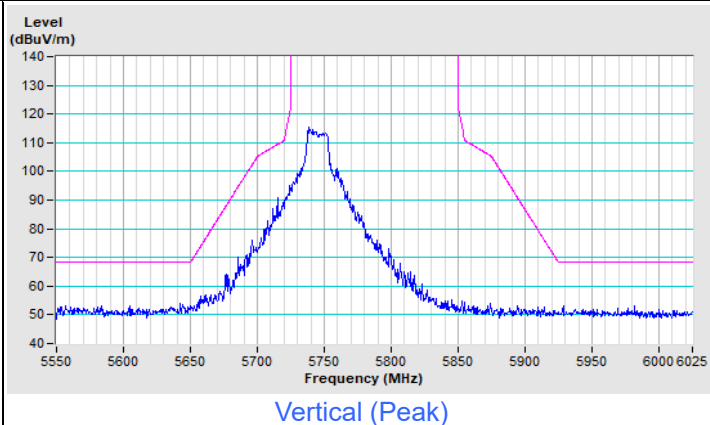
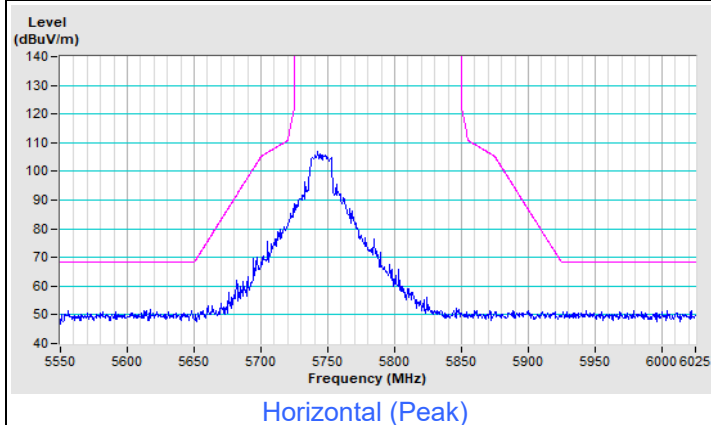
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
-----------------	---------------------	-------------------------------	--

802.11a Channel 100

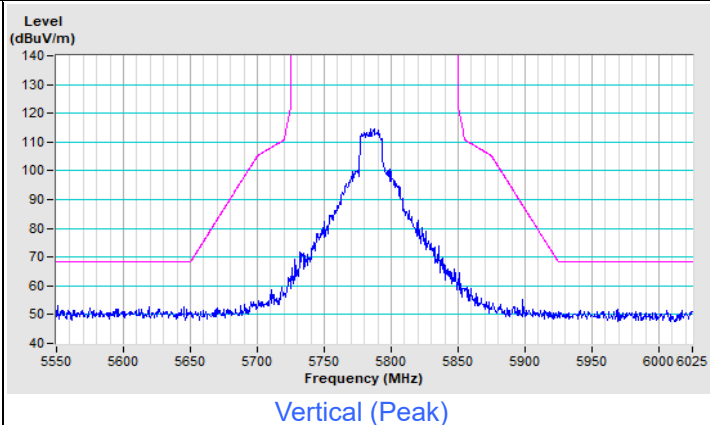
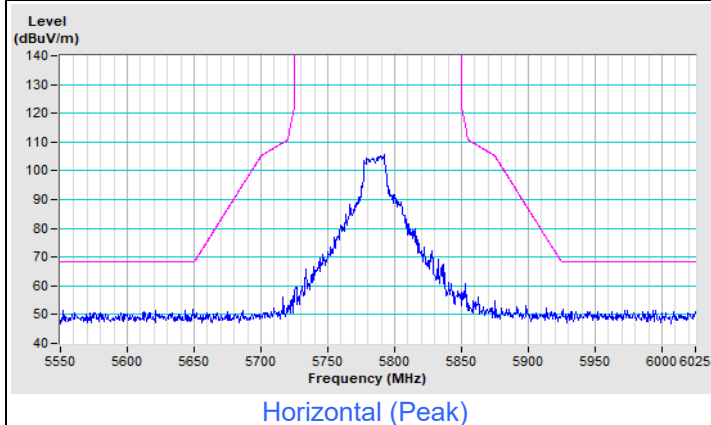


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
-----------------	----------------------	-------------------------------	----------------------------------

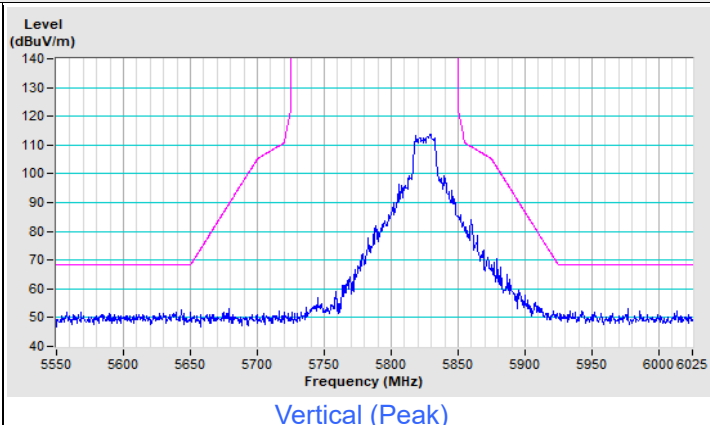
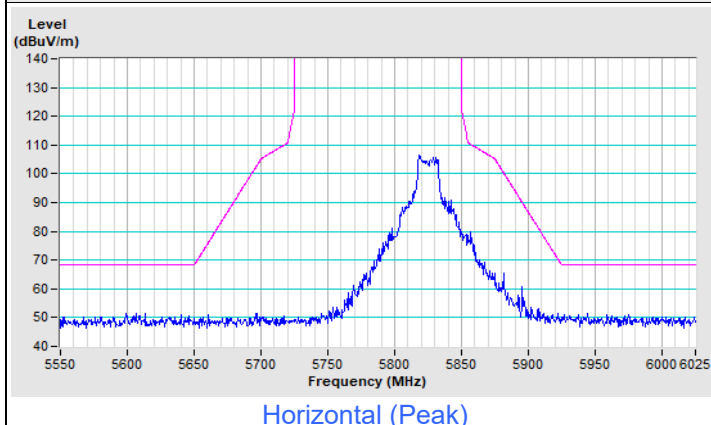
802.11a Channel 149



802.11a Channel 157



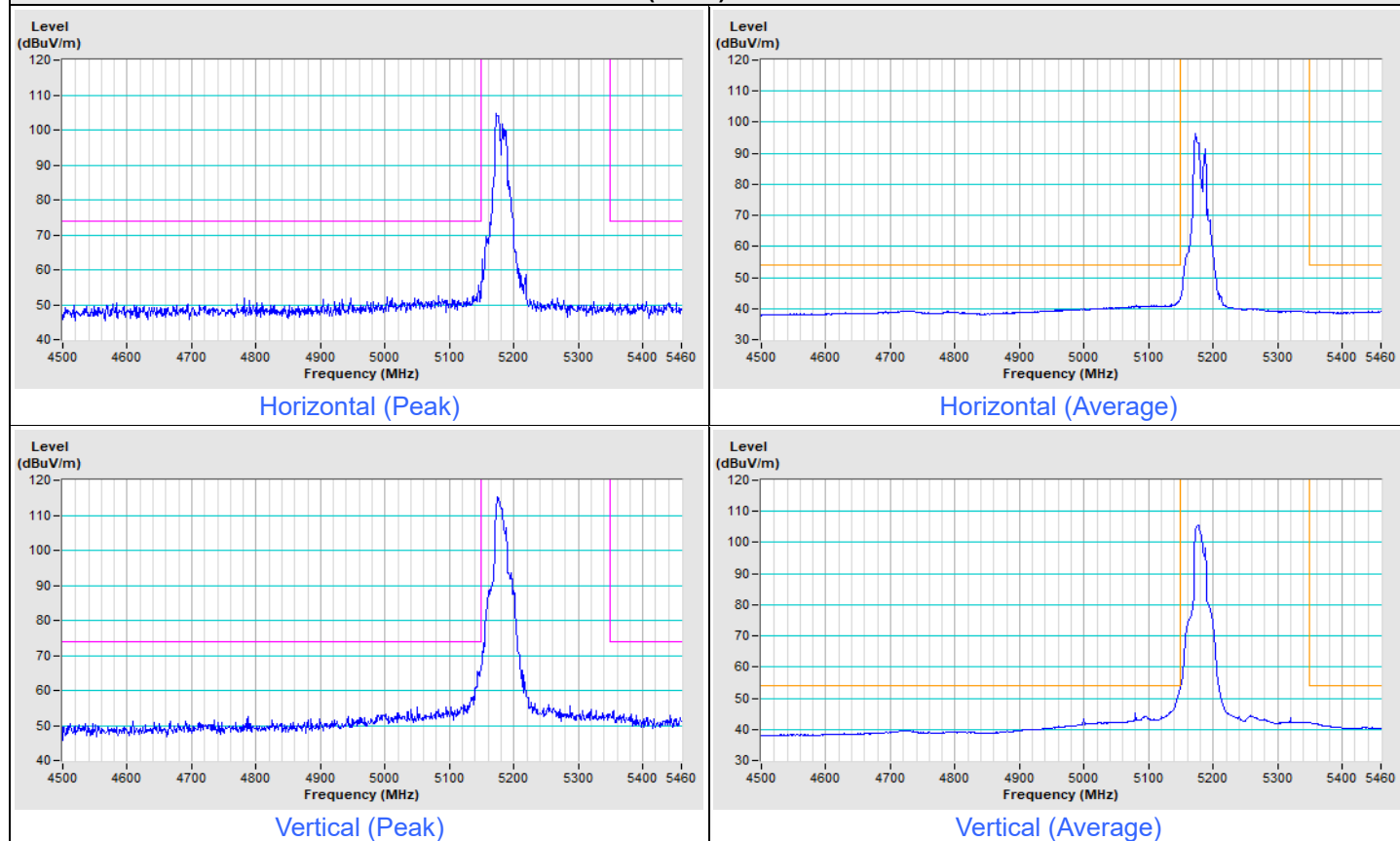
802.11a Channel 165



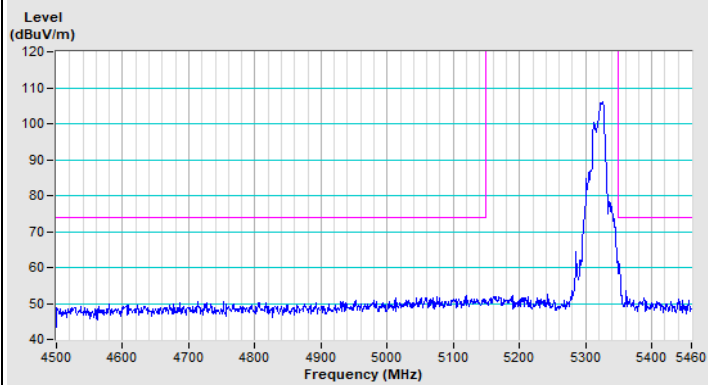
CDD

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
-----------------	--------------------	-------------------------------	--

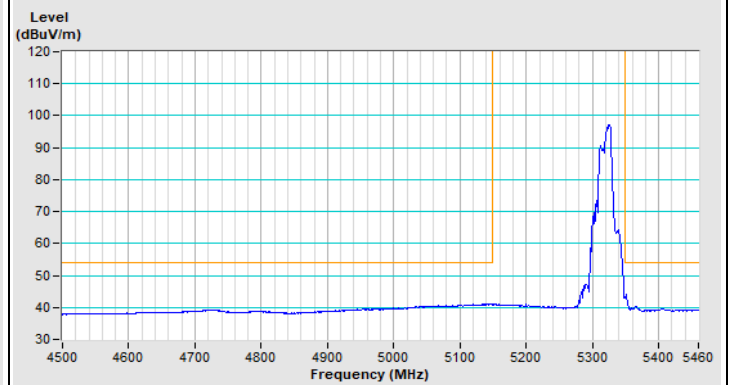
802.11n (HT20) Channel 36



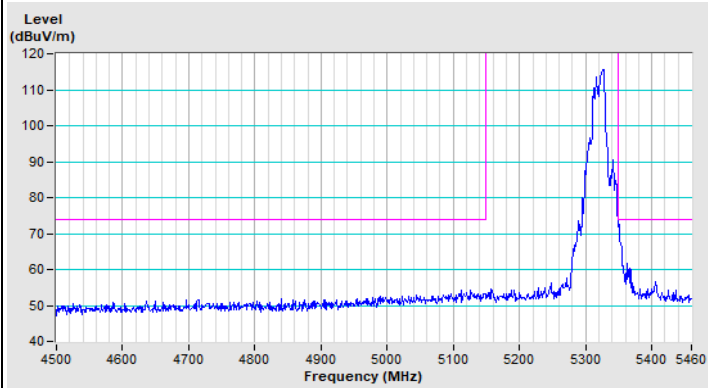
802.11n (HT20) Channel 64



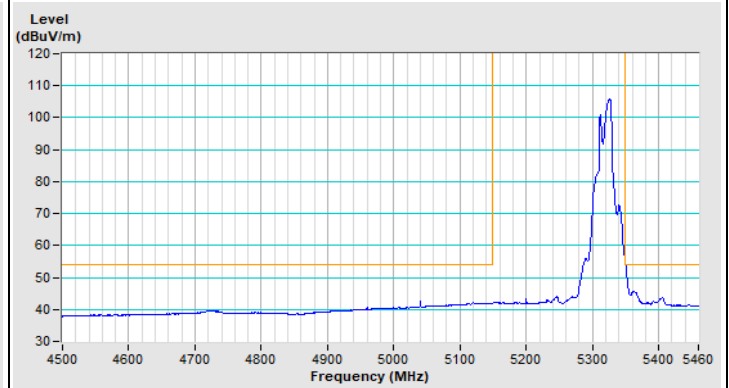
Horizontal (Peak)



Horizontal (Average)



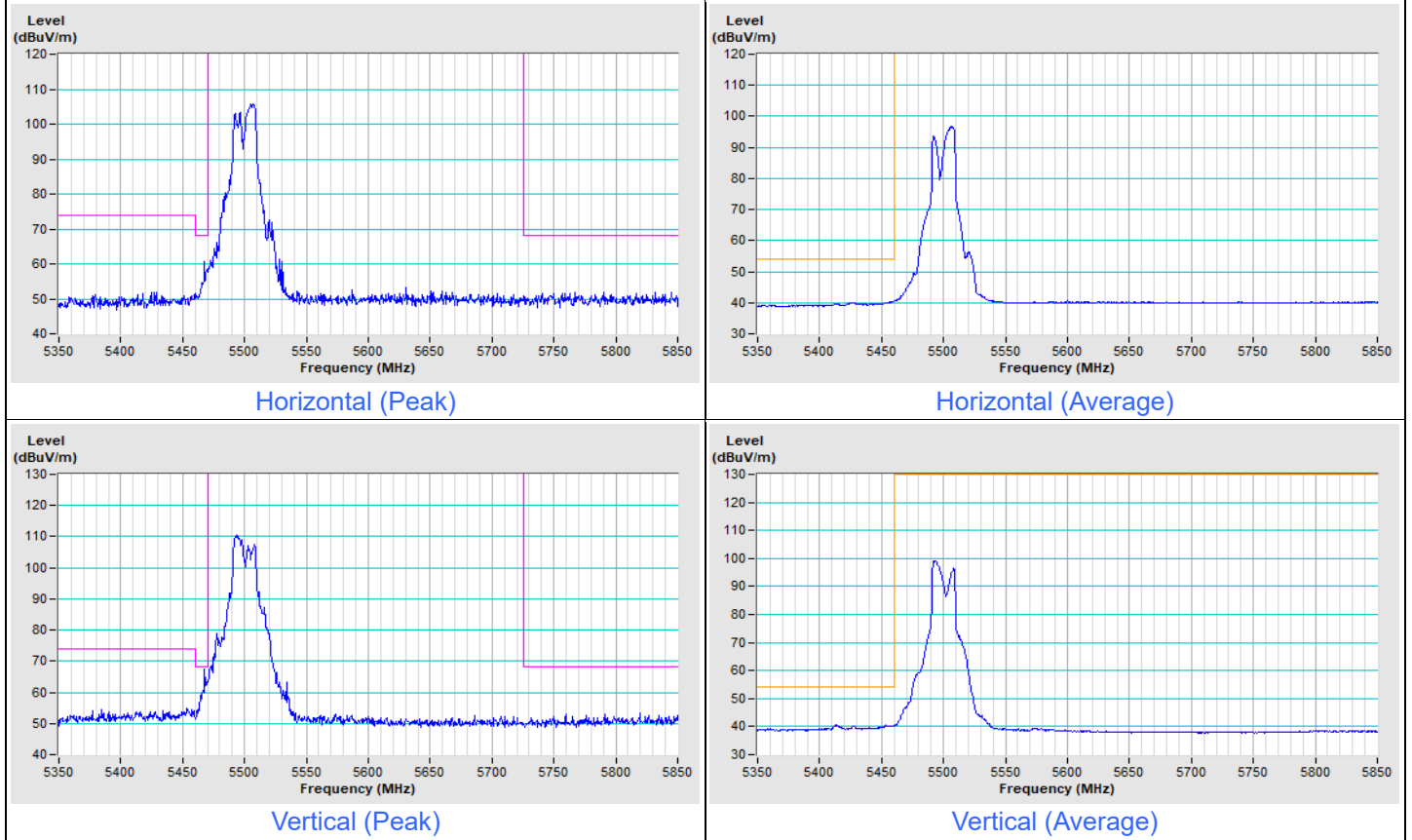
Vertical (Peak)



Vertical (Average)

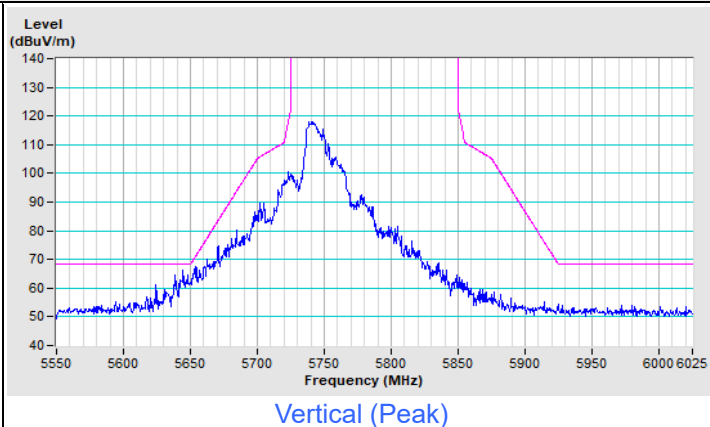
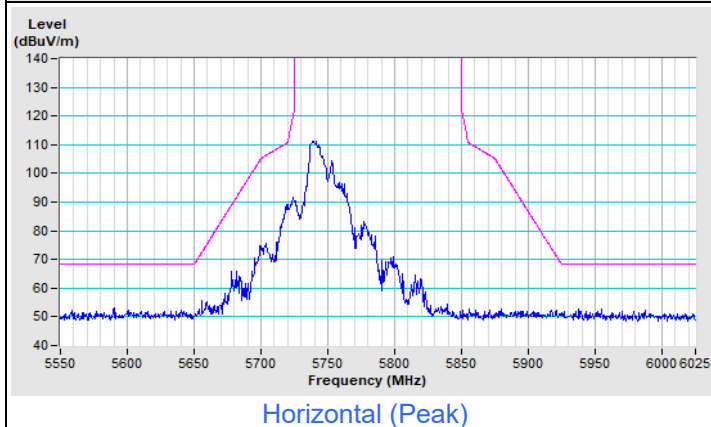
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
-----------------	---------------------	-------------------------------	--

802.11n (HT20) Channel 100

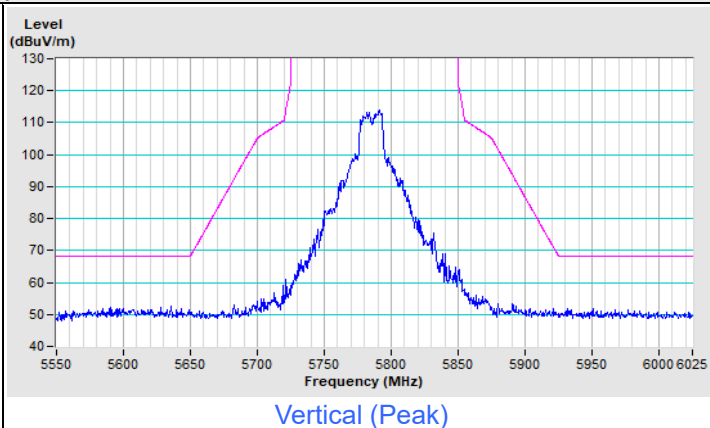
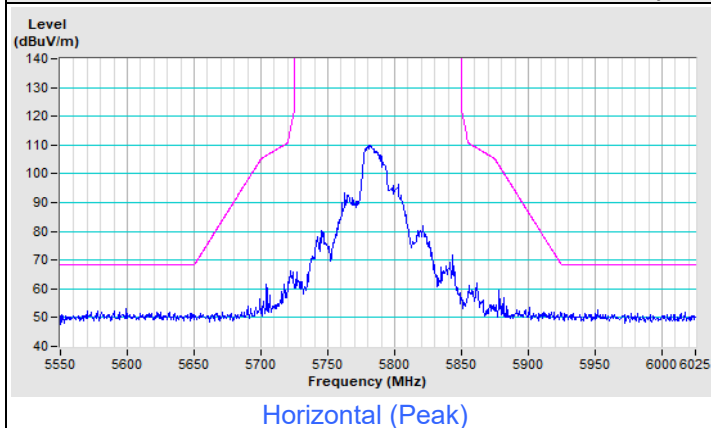


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
-----------------	----------------------	-------------------------------	----------------------------------

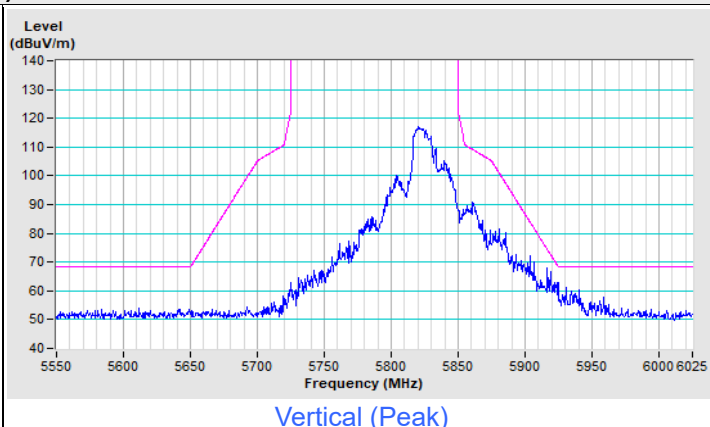
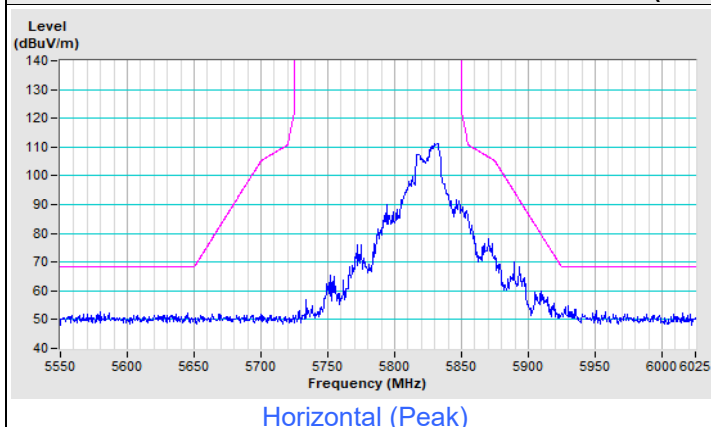
802.11n (HT20) Channel 149



802.11n (HT20) Channel 157

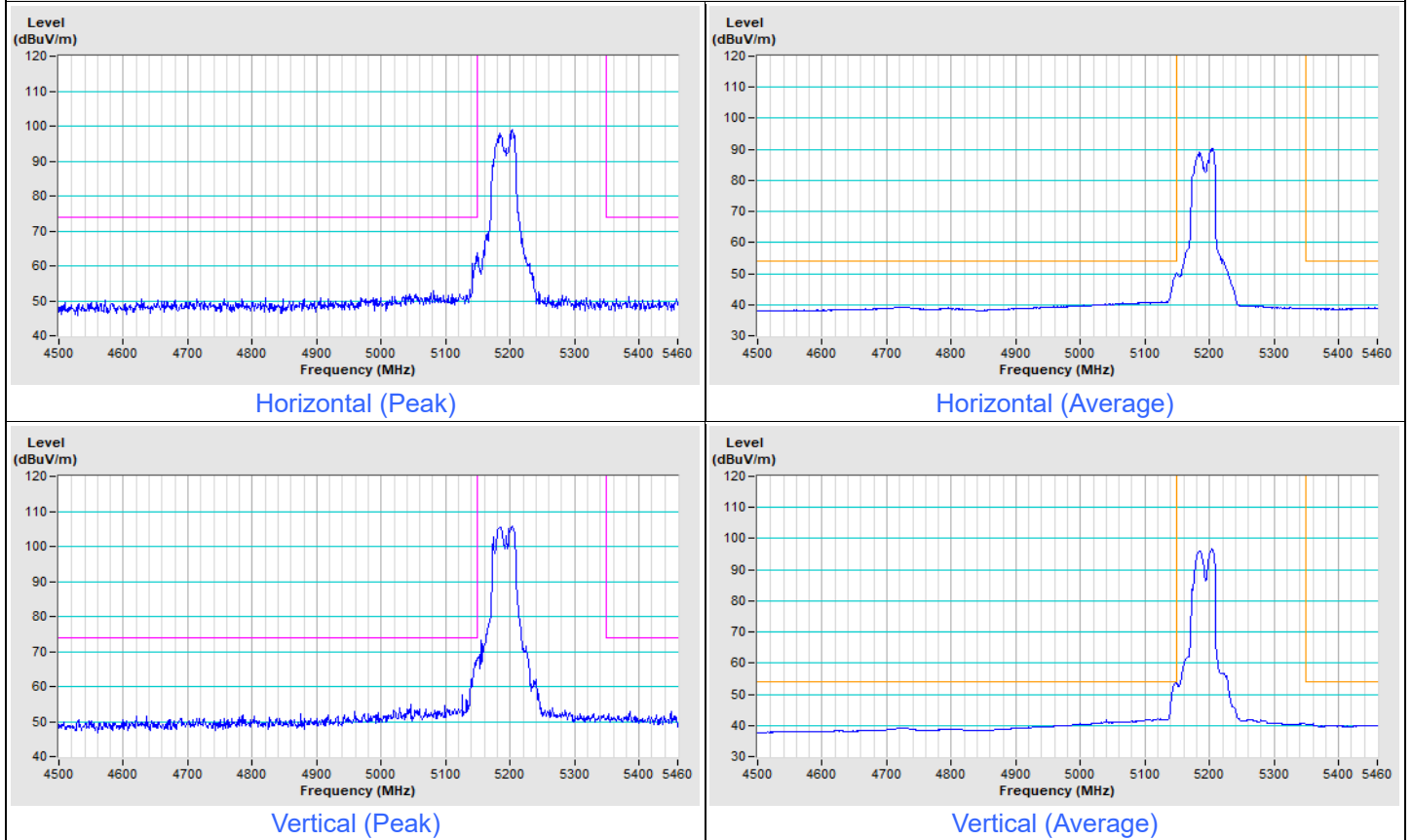


802.11n (HT20) Channel 165

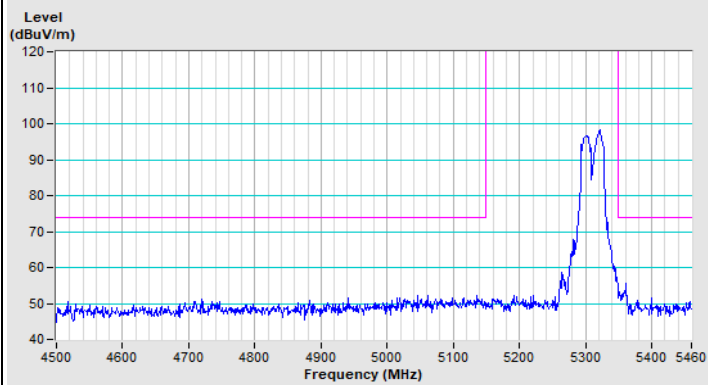


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
-----------------	--------------------	-------------------------------	--

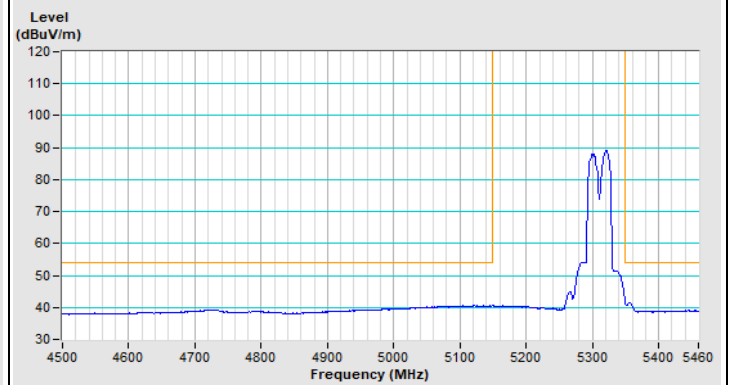
802.11n (HT40) Channel 38



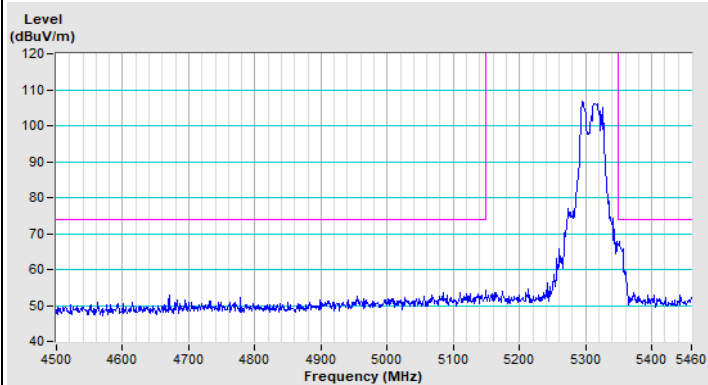
802.11n (HT40) Channel 62



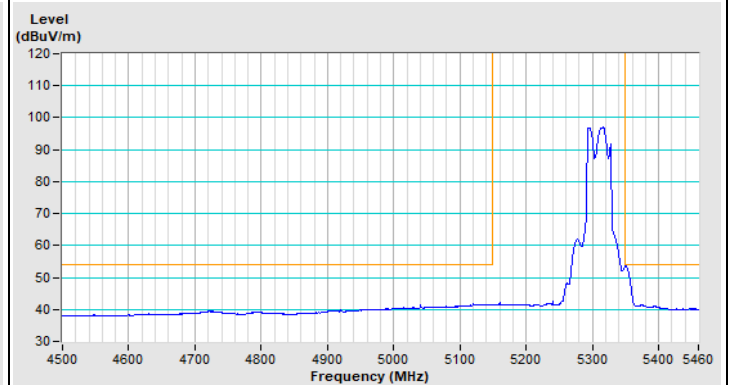
Horizontal (Peak)



Horizontal (Average)



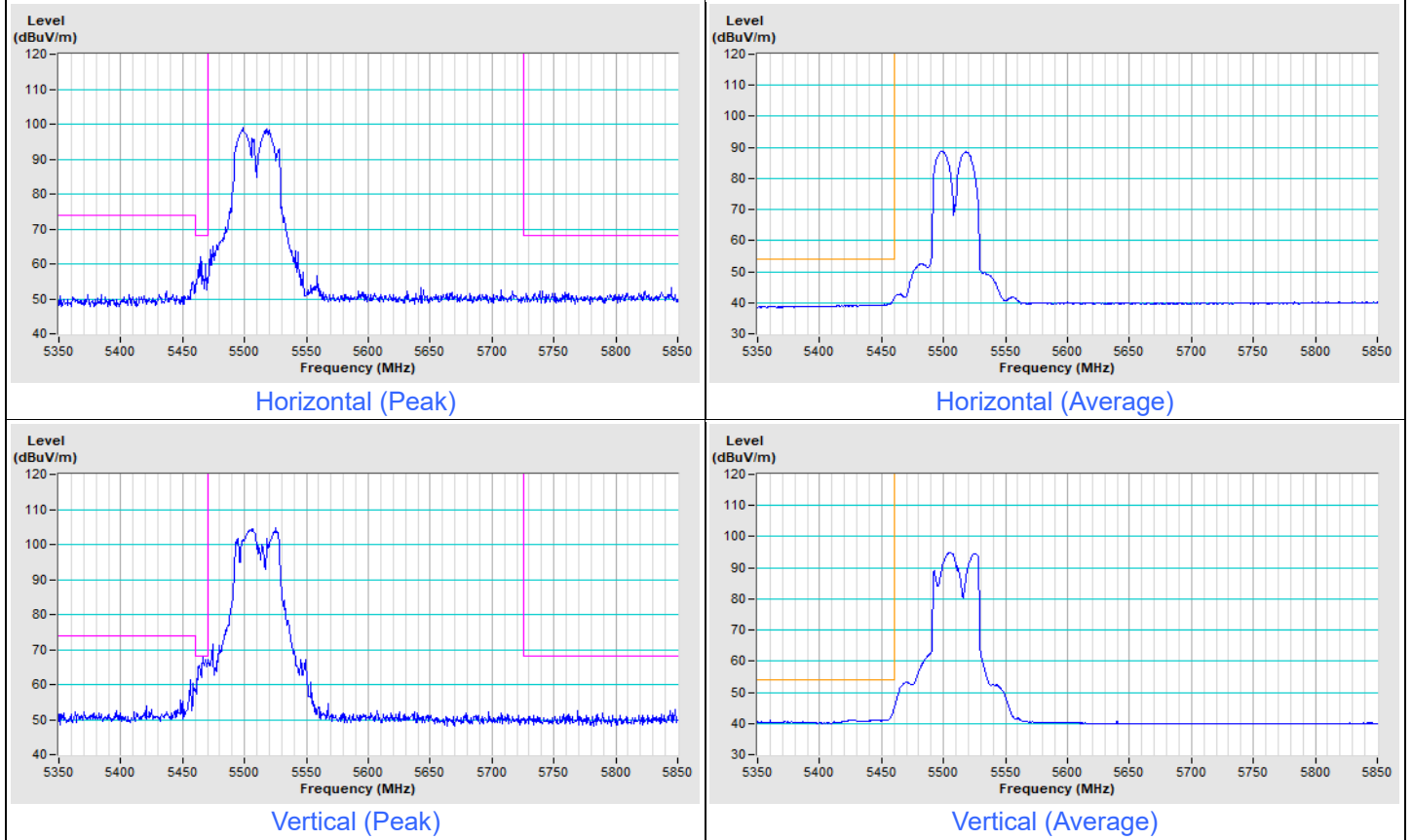
Vertical (Peak)



Vertical (Average)

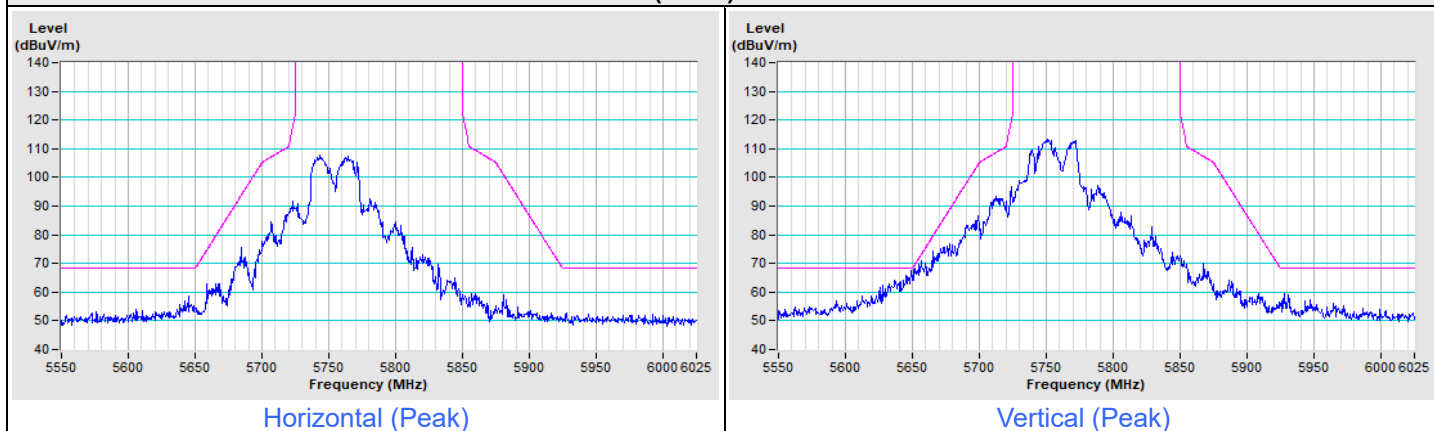
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
-----------------	---------------------	-------------------------------	--

802.11n (HT40) Channel 102

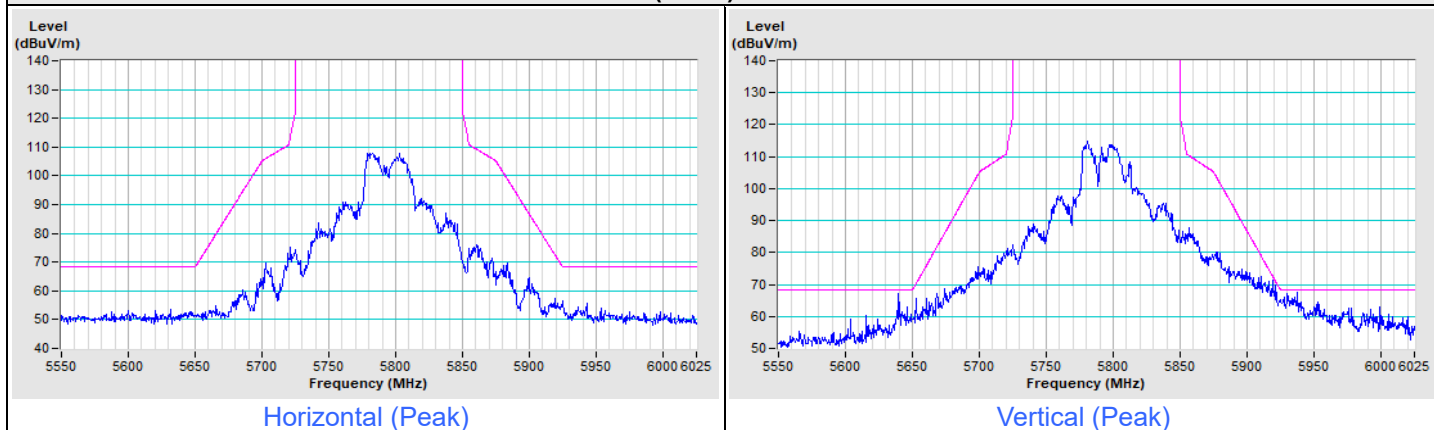


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
-----------------	----------------------	-------------------------------	----------------------------------

802.11n (HT40) Channel 151



802.11n (HT40) Channel 159



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

--- END ---